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# Review of Agricultural Entomology

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Volume 83 Annual Indexes

Includes List of Source Journals

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## **Review of Agricultural Entomology**

A monthly journal compiled from the CAB ABSTRACTS database.  
Produced by the DIVISION OF CROP PROTECTION AND GENETICS  
in association with the International Institute of Entomology

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# Review of Agricultural Entomology

Volume 83

## Volume 83



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Review of  
Agricultural Entomology

Contents  
Volume 83

<b>Taxonomy and Evolution</b> .....	1	111	205	321	411	551	663	801	929	1049	1173	1305
<b>Morphology</b> .....	5	114	209	324	414	556	666	805	933	1054	1176	1309
<b>Reproduction and Development</b> .....	7	115	210	325	415	558	668	807	934	1056	1178	1310
<b>Physiology and Biochemistry</b> ....	8	116	211	326	417	559	670	808	934	1059	1179	1312
<b>Genetics and Sterility</b> .....	16	121	216	330	424	567	678	819	942	1067	1186	1318
<b>Ecology, Biology and Behaviour</b> .....	19	126	221	334	428	571	684	822	948	1071	1189	1323
<b>Geographical Distribution, Faunas</b> .....	28	135	227	343	444	579	694	836	955	1082	1195	1332
<b>Techniques and Equipment</b> .....	29	137	229	345	445	581	695	838	957	1083	1198	1334
<b>Agriculturally important invertebrates (miscellaneous)</b> ....	31	139	233	350	448	583	699	841	960	1088	1201	1336
Unclassified .....	—	—	233	—	—	—	699	—	960	—	1201	1336
<b>Locusts and other Acridoidea</b> .....	31	139	233	350	448	583	699	841	960	1088	1201	1336
<b>Formicidae, nuisance-causing arthropods</b> .....	32	139	233	350	449	583	700	842	960	1088	1202	1336
<b>Pollinators</b> .....	33	140	235	351	450	585	702	842	961	1088	1202	1338
<b>Parasitoids, ectoparasites and predators</b> .....	34	140	236	352	450	585	702	842	961	1088	1202	1338
<b>Isoptera</b> .....	39	144	240	356	455	590	707	847	965	1093	1205	1343
<b>Useful arthropods (miscellaneous)</b> .....	39	144	240	356	455	591	708	847	966	1093	1205	1344
<b>Gastropoda</b> .....	40	144	240	357	456	591	709	848	966	1094	1207	1345
<b>Insect and Plant Diseases</b> .....	41	145	241	357	457	592	709	848	967	1094	1207	1345
<b>Control</b> .....	45	148	247	360	466	597	715	858	972	1102	1214	1352
<b>Control measures</b> .....	45	148	247	360	466	597	715	858	972	1102	1214	1352
<b>Unclassified</b> .....	45	148	248	360	466	—	715	859	972	1103	1214	1352
<b>Biological control</b> .....	45	148	248	361	466	597	715	859	972	1103	1214	1352
<b>Chemical control</b> .....	46	149	249	361	467	598	716	859	973	1103	1215	1353
<b>Pesticidal plants</b> .....	—	—	—	362	—	—	—	—	973	—	—	—
<b>Cultural control</b> .....	47	149	250	362	468	599	717	860	973	1103	1215	1353
<b>Repellents and antifeedants</b> .....	—	149	—	362	468	599	717	—	—	—	—	—



Integrated control .....	47	149	250	362	468	599	717	860	973	1103	1215	1353
Pest resistance.....	47	149	250	362	468	599	717	860	974	1104	1216	1353
Pheromones, attractants and trapping .....	47	149	251	362	468	600	717	860	974	1104	1216	1354
Sterilization and genetic control .....	47	150	252	—	468	600	717	—	974	1104	—	1354
Surveys, crop losses, damage and forecasts.....	47	150	252	362	468	600	717	861	974	1104	1216	1354
Law and quarantine.....	48	150	252	363	—	600	718	862	974	1105	1218	1354
<b>Chemicals, including toxicity tests and environmental effects .....</b>	48	150	253	363	469	600	719	862	974	1105	1218	1355
<b>Crops (general).....</b>	62	161	269	374	489	612	732	876	993	1120	1240	1372
<b>Cereals .....</b>	63	162	270	375	490	614	734	877	994	1121	1241	1373
Wheat (including Aegilops) .....	63	163	271	375	492	614	735	879	995	1122	1241	1374
Barley .....	65	163	272	376	493	615	738	881	996	1124	1243	1375
Oats.....	—	164	—	376	—	—	—	—	—	1124	1243	—
Rye.....	—	—	—	—	—	—	—	—	—	—	—	—
Triticale.....	—	164	—	—	—	—	—	—	—	—	—	—
Maize (including Tripsacum) .....	65	164	272	376	493	616	738	881	997	1124	1243	1376
Sorghum.....	66	165	274	377	496	617	740	883	998	1128	1246	1376
Millets .....	67	—	275	—	497	618	741	884	999	1128	1247	—
Rice .....	67	166	275	378	497	619	742	884	999	1128	1247	1377
Other cereals (including pseudocereals).....	—	—	—	—	—	—	—	—	—	—	—	—
<b>Fodder Plants .....</b>	69	167	278	381	499	620	744	887	1000	1130	1249	1378
Grasses.....	69	167	278	381	499	620	744	887	1000	1130	1249	1380
Lucerne .....	70	—	279	381	500	621	746	887	1001	1131	1249	1380
Clovers .....	70	168	279	382	501	—	747	888	1002	—	—	1380
Other fodder plants .....	—	—	279	382	501	622	747	888	1002	—	—	1380
<b>Grain Legumes .....</b>	70	168	280	382	501	622	747	888	1003	1131	1550	1380
Soyabeans .....	70	168	280	382	502	622	747	888	1003	1131	1250	1380
Faba beans .....	70	169	—	383	502	622	—	889	1004	1132	1252	1381
Phaseolus .....	71	169	280	383	503	622	748	889	1004	1132	1252	1381
Peas .....	71	169	281	383	504	—	749	—	1004	1133	1253	1382



Legumes.....	169	—	—	—	—	—	—	1004	—	—	—	—
Chickpeas.....	71	170	—	383	—	622	749	890	—	—	1253	—
Pigeon peas.....	71	—	281	—	—	623	749	890	1004	1133	1253	1382
Vigna.....	71	170	281	383	504	623	750	891	1004	1134	1253	1383
Other grain legumes.....	—	170	—	—	—	—	750	—	—	1135	—	—
<b>Root Crops.....</b>	72	170	281	384	504	623	750	891	1005	1135	1254	1383
Potatoes.....	72	170	281	384	504	623	750	891	1005	1135	1254	1383
Carrots.....	73	171	—	384	—	—	—	—	—	—	1255	1384
Swedes and turnips.....	—	171	—	—	—	—	752	—	—	—	—	—
Cassava.....	73	171	282	—	506	624	752	—	1006	1137	1255	1384
Sweet potatoes.....	74	171	283	384	507	625	—	893	1006	1137	1255	1385
Taro.....	—	—	—	—	—	625	—	—	—	—	—	—
Colocasia.....	—	—	—	—	—	—	—	—	1007	—	—	—
Other root crops.....	74	—	—	—	—	625	752	—	1007	—	1255	—
<b>Leafy Vegetables, Bulbous Vegetables, Stem Vegetables.....</b>	74	172	284	385	507	625	752	893	1007	1137	1255	1385
Allium.....	74	172	284	385	507	625	753	893	1007	1137	1256	1685
Brassica.....	74	172	284	385	507	626	753	893	1007	1138	1256	1385
Spinach.....	—	173	—	—	—	—	—	—	—	—	—	—
Celery.....	—	173	—	385	—	—	755	895	—	—	1257	1387
Lettuces.....	75	—	285	—	509	—	755	895	—	1139	1258	1387
Other leafy, bulbous and stem vegetables.....	75	173	285	386	509	627	756	—	1008	—	1258	1387
<b>Fruit Vegetables.....</b>	75	173	285	386	509	628	756	896	1008	1139	1258	1387
Tomatoes.....	75	173	285	386	510	628	756	896	1008	1139	1258	1388
Aubergines.....	—	—	286	386	—	628	758	897	1010	1140	1260	1388
Capsicum.....	—	—	286	386	511	628	758	—	1010	1141	1260	1389
Cucurbitaceae.....	77	174	286	387	512	628	758	898	1010	1141	1260	1389
Other fruit vegetables.....	—	—	287	—	513	629	759	—	1010	—	1261	1390
<b>Temperate Fruits.....</b>	77	175	287	387	513	629	759	898	1011	1142	1261	1390
Pome fruits.....	78	175	287	387	513	629	760	898	1011	1142	1261	1391
Stone fruits.....	79	176	289	388	516	631	763	900	—	1144	1263	1393



Small fruits .....	80	177	289	388	516	631	764	901	1013	1145	1263	1393
Grapes .....	80	177	290	388	517	632	764	902	1014	1146	1264	1394
Other temperate fruits .....	80	178	291	389	518	632	765	902	1014	1148	1264	1394
<b>Tropical and Subtropical Fruits ..</b>	80	178	291	389	518	633	766	903	1014	1148	1265	1396
Bananas .....	81	178	291	389	518	633	766	903	1014	1148	1265	1396
Citrus .....	81	178	291	389	518	634	766	903	1015	1148	1265	1396
Mangoes .....	82	179	292	390	520	634	767	904	1015	1150	1266	1398
Pineapples .....	82	179	292	390	520	634	767	904	1016	1150	1266	1398
Litchi .....	82	179	292	390	520	634	767	904	1016	1150	1266	1398
Other tropical and subtropical fruits	82	179	292	390	520	635	767	904	1016	1150	1266	1398
<b>Nut Crops .....</b>	83	180	292	391	521	635	768	905	1016	1151	1267	1399
<b>Fatty Oil Plants .....</b>	83	180	292	391	522	636	769	905	1017	1151	1267	1400
Rape .....	83	181	292	391	522	636	769	905	1017	1152	1267	1400
Sinapis .....	83	181	292	391	522	636	769	905	1017	1152	1267	1400
Linseed (see also flax) .....	83	181	293	392	523	636	769	905	1017	1152	1268	1400
Sunflowers .....	83	181	293	392	523	636	769	905	1017	1152	1268	1400
Safflower .....	83	181	293	392	523	636	769	905	1017	1152	1268	1400
Oil palms .....	83	181	293	392	523	636	769	905	1017	1152	1268	1400
Coconuts .....	83	181	293	392	523	636	769	905	1017	1152	1268	1400
Olives .....	84	182	293	393	524	637	770	906	1018	1152	1268	1401
Groundnuts .....	84	182	293	393	524	637	770	906	1018	1153	1268	1401
Castor beans .....	84	183	293	393	525	637	770	906	1018	1153	1268	1401
Sesame .....	84	183	293	393	525	637	770	906	1018	1153	1268	1401
Other fatty oil plants .....	84	183	294	393	525	637	770	906	1018	1153	1268	1401
<b>Sugar Crops .....</b>	85	183	294	393	525	637	771	907	1018	1153	1268	1402
Sugarcane .....	85	183	294	393	525	637	771	907	1018	1153	1268	1402
Sugarbeet .....	85	184	295	394	526	638	772	907	1019	1154	1269	1403
Other sugar crops .....	85	184	295	394	526	638	772	907	1019	1154	1269	1403
<b>Stimulant Plants .....</b>	85	184	295	394	526	638	772	907	1019	1154	1269	1403
Tea .....	85	184	295	394	526	638	772	907	1019	1154	1269	1403



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# How to use Review of Agricultural Entomology

## • Either BROWSE, using the CONTENTS

Within each issue, records are sequenced according to their principal subject matter - see CONTENTS page.  
About three quarters of the records are arranged by CROP, so browsing is particularly useful to crop specialists.

## • Or SEARCH, using the INDEXES

Subject indexes and author indexes are compiled monthly and cumulated annually.

## SUBJECT INDEX

This guides the user to all the records that make significant reference to specific topics, including the following:

### INVERTEBRATE SPECIES AND GROUPS

Scientific names are used. These entries provide the most detailed indexing, pointing also to taxonomy, physiology, ecology, biology, distribution, hosts, natural enemies, control, etc. Records that refer only to groups are indexed under group names, e.g. Coleoptera, mites.

### HOST PLANT SPECIES AND GROUPS

English common names are used for major crops, scientific names for minor crops and other plants. Entries point also to invertebrates or other subjects. Records that refer only to groups are indexed under group names, e.g. cereals, vegetables.

### COUNTRY OR REGION

For records where geographical occurrence is of particular relevance.

### AGROCHEMICALS etc.

Including common or chemical names, with cross-references from proprietary names.

### PATHOGENS

Scientific names are used for pathogens of invertebrates and plants. Groups such as entomogenous fungi, nuclear polyhedrosis viruses are also indexed.

### HABITATS

E.g. forests, grasslands, greenhouses, orchards, pastures, soils. Entries relate particularly to beneficial organisms and environmental effects.

### OTHER HEADINGS

The main ones are listed here. Scan the ANNUAL INDEX for a more complete picture.

*Acaricides	*Forest pests	Migration	Rearing techniques
*Arthropod pests	Galls	Molecular genetics	Reports
*Arthropods	Genetics	*Parasitoids	Reviews
*Beneficial arthropods	*Insect pests	*Pest control	Sampling
*Beneficial insects	*Insecticides (and	*Pest resistance	Sex pheromones
Bibliographies	related terms)	*Pesticides	Stored products
Biological control	*Insects	Pheromones	Techniques
Books	Integrated control	Pollination	Traps
Conferences	Integrated pest	Pollution	*Weeds
Cultural control	management	*Predators	
Equipment	Keys	Quarantine	

\*Terms used to index records that do not refer to specific arthropods, chemicals or plants.

## AUTHOR INDEX

All authors of each paper are indexed alphabetically by surname. Variants of surnames are also indexed.



A TYPICAL RECORD

This contains various numbers and combinations of fields (items of information) depending on the document type. The sample abstract given below contains 10 of the most important and common fields. These appear in the order indicated in the list below.

1	Abstract number	10280	BAUDRY, O. [Towards reduction of chemical treatments in control of the pear psyllid <i>Psylla pyri</i> L.] Vers une suppression des traitements contre le psylle du poirier <i>Psylla pyri</i> L. <i>Bulletin OILB/SROP</i> (1994) 17 (2) 61-66 [Fr, en, it] Centre Technique Interprofessionnel de Fruits et Légumes, Centre de Lanxade, Prignonrieux 21, 24130 La Force, France.
2	Author		
3	Title in English		
4	Original title if in Roman script		
5	Journal or other document		
6	Year, volume, part number and pagination		
7	Language of text, language of summaries, bibliographic details		
8	Organization where work was carried out		
9	Abstract		It was shown in France that the use of broad spectrum insecticides to control outbreaks of <i>Psylla pyri</i> [ <i>Cacopsylla pyri</i> ] on pears can be reduced. When damage is heavy, DNOC should be applied at the swollen bud stage, with 1-2 applications of amitraz on 2nd and 3rd generation nymphs. DNOC treatments can be reduced when the adult population is low. In a well-balanced orchard, populations should be sampled in June and insecticides should be used sparsely. Conditions which favour predators should be created in orchards. This paper was presented at the 5th International Colloquium on pears held in Cesena, Italy, on 11-15 October 1993.
10	Preferred name, if the author uses another name		

The title should be read as an integral part of the abstract.

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LIST OF JOURNALS CITED

The annual index includes an alphabetical list of all journals cited during the year.

ABBREVIATIONS

A number of easily understood abbreviations are used (e.g. sp., species). Initial letters may be used for a virus after its full name has appeared. The following are also used:

a.i.	active ingredient	FW	fresh weight	PIB	polyhedral inclusion body
concn	concentration(s)	ID	infective dose	RAE	Review of Agricultural Entomology
d.b.h.	diameter at breast height	IU	International unit		
DW	dry weight	KT	knockdown time	RH	relative humidity
e.c.	emulsifiable concentrate	LC	lethal concentration	SEM	scanning electron microscope
ED	effective dose	LD	lethal dose		
ELISA	enzyme-linked immunosorbent assay	LD 10:14	10 h light & 14 h dark	ULV	ultralow volume
EM	electron microscope	PAGE	polyacrylamide gel electrophoresis	w.p.	wettable powder

In abbreviations for languages an initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Es	Spanish	Ja	Japanese	Pt	Portuguese
Al	Albanian	Fi	Finnish	Ko	Korean	Ro	Romanian
Ar	Arabic	Fr	French	La	Latin	Ru	Russian
Az	Azerbaijani	Gr	Greek	Li	Lithuanian	Sh	Serbo Croat
Be	Belarussian	He	Hebrew	Lv	Latvian	Sk	Slovak
Bg	Bulgarian	Hi	Hindi	Ma	Macedonian	Sn	Slovenian
Ch	Chinese	Hr	Croatian	My	Bahasa Malaysia/ Malay	Sr	Serbian
Cs	Czech	Hu	Hungarian	Nl	Dutch, Flemish	Sv	Swedish
Da	Danish	Ia	Interlingua	No	Norwegian	Ta	Tajik
De	German	In	Indonesian	Pe	Persian	Th	Thai
Ee	Estonian	Is	Icelandic	Pl	Polish	Tr	Turkish
En	English	It	Italian			Uk	Ukrainian
Eo	Esperanto						



# **CAB INTERNATIONAL Division of Crop Protection and Genetics**

## **How the crop protection abstract journals are compiled**

*Review of Agricultural Entomology*

*Nematological Abstracts*

*Review of Plant Pathology*

*Weed Abstracts*

### **Their purpose**

These four journals are designed to keep readers in touch with developments in the crop protection sciences, by abstracting the more important world scientific literature and by publishing review articles. A calendar of crop protection events is included. The abstracts are intended to be full enough for readers to decide whether they need to see the original documents.

### **The scale and diversity of the agricultural source literature**

Over 10,000 journals and other serial publications on agriculture and allied disciplines are received regularly by CAB INTERNATIONAL; these comprise more than 45,000 documents annually. Over 3000 books and other non-serials are also received each year. Publications are received from some 130 countries in more than 50 languages. Even though English is increasingly the international language of science, some 40% of the literature is in other languages.

### **Scanning and abstracting the source literature of crop protection**

All these documents are scanned by CABI subject specialists and are available to the CABI Division of Crop Protection and Genetics. About 3000 journals, and numerous new books, are scanned regularly in the Division, whose staff includes specialists in entomology, plant pathology, nematology, weed science, plant genetics, and also linguists.

These specialists identify items within the scope of the four crop protection journals - broadly, scientific documents about agriculturally significant pests (invertebrates, plant pathogens and weeds), beneficial organisms, and relevant crop protection practices and products.

For each item, a record is created consisting of:

- bibliographic information
- an abstract, in English
- subject coding
- index terms.

### **The CAB ABSTRACTS database**

These records are added to the CAB ABSTRACTS bibliographic database. This machine-readable database contains all records published since 1973 in about 50 CABI abstract journals. The total of nearly 3 million records is growing by more than 150,000 new records per year, of which about 21,000 per year are on crop protection. The database is available to users for retrospective retrieval and for maintaining current awareness of literature on defined topics. See separate page, and inside back cover.

### **The crop protection abstract journals**

At intervals, relevant records newly added to the database are selected and become the basis for a new issue of one of the crop protection journals. Records are sorted into a standard sequence within each journal issue, according to subject matter. An author index and a subject index are generated. Cumulative indexes are generated at the end of each year.

### **Scientific links**

Each of the four crop protection journals has its own international Editorial Advisory Board of subject specialists. Their members advise on the content and development of the journals, and commission review articles of topical interest.

The CABI Division of Crop Protection and Genetics maintains close contact with the International Institute of Entomology (IIE), the International Mycological Institute (IMI), the International Institute of Parasitology (IIP) and the International Institute of Biological Control (IIBC). These links are especially important in providing the authority for the preferred names of pest organisms used in the journal indexes. IIBC is responsible for compiling the related abstract journal *Biocontrol News and Information*.

The Division of Crop Protection and Genetics maintains close contact with subject specialists in four other Divisions of the CABI Information Services who compile 45 abstract journals covering the rest of agriculture, forestry and allied disciplines. Comments from users are always welcome. Please write to Mr Geoffrey A. Viney, Division of Crop Protection and Genetics, CAB INTERNATIONAL, Wallingford, Oxon OX10 8DE, UK.



# Review Articles - Notes for Authors

## General

Articles reviewing any topical aspect of crop protection are welcomed in the journals *Review of Agricultural Entomology*, *Review of Plant Pathology*, *Nematological Abstracts* and *Weed Abstracts*. They should be authoritative, personal, succinct analyses of topical subjects, aimed at the general reader rather than the specialist. (Many readers, especially in developing countries, may see few other journals covering the particular topic). A comprehensive literature review is not needed, but CAB International can provide recent bibliographic records if required. Manuscripts describing original research will not normally be accepted. Reviews submitted for publication should be sent, in duplicate, to the Head, Department of Crop Protection, CAB International, Wallingford, Oxon OX10 8DE, UK. Inclusion of a disk version, preferably as an ASCII text file or in MS Word or Word for Windows, will hasten the process of publication. The paper will be refereed and edited. The final decision on acceptance rests with the Head, Department of Crop Protection. A small honorarium will be paid on publication. The views expressed in review articles are those of the authors and do not necessarily reflect the views of their employers or CAB International. The article becomes copyright of CAB International.

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Manuscripts should be typewritten on one side of A4 paper, lines double-spaced, with wide margins and the sheets numbered. The text should start with a short abstract (not normally more than 200 words). No more than four levels of heading should be used. Numbers up to nine should be spelt out but figures used for 10 and above, except at the beginning of a sentence (always spelt out) and before units (always in figures).

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Tables should be reduced to the simplest form, and should not repeat information in the text. They should be submitted on separate sheets, with a self-explanatory caption.

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Line drawings should be labelled fully, ready for reduction by about half in the printed review. Legends should be self-explanatory, and grouped together on a separate sheet. Half-tones cannot normally be included.

## References

In the text, they should be cited by author and date, e.g.: "(Holt, 1992)", "Powles & Matthews (1992) reported...", "(Jorrín *et al.*, 1992)". At the end of the review, they should be listed alphabetically, for example:

- Holt, J. S. (1992). History of identification of herbicide-resistant weeds. *Weed Technology* **6**, 615-620.
- Jorrín, J.; Menéndez, J.; Romera, E.; Taberner, A.; Tena, M.; Prado, R. de (1992). Chlorotoluron resistance in a blackgrass (*Alopecurus myosuroides*) biotype is due to herbicide detoxification. *Proceedings of the 1992 Gent Crop Protection Conference, Weeds*, pp. 1047-1052.
- Powles, S. B.; Matthews, J. A. (1992). Multiple herbicide resistance in annual ryegrass (*Lolium rigidum*): a driving force for the adoption of integrated weed management. *In: Achievements and developments in combating pesticide resistance* (Ed. by Denholm, I.; Devonshire, A. L.; Holloman, D. W.), pp. 75-87. Elsevier, London, UK.

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# AUTHOR INDEX

- A. Carneiro, M. A. 11340  
A. Moura, L. de 4648  
A. Rosenthal, M. de 7801  
Aalbu, R. L. 46  
Aanes, K. J. 5327  
Aarón, D. E. 2594  
Abad, A. 4238  
Abad, J. L. 7520  
Abad, R. G. 2764  
Abadi, A. A. H. 3615  
Abai, M. 3121  
Abaii, M. G. 3615  
Abarca, G. 9858  
Abbas, H. K. 5459  
Abbazzi, P. 5088  
Abbott, I. 8870  
Abbott, M. K. 4018  
Abd-Alla, M. H. 10594  
Abd-Allah, F. F. 8617  
Abd El-Salam, S. S. 2363  
Abd-El Samie Ibrahim, A. 5307  
Abd-Elgawad, M. M. 10450, 11489  
Abd-Elghafar, S. F. 4264  
Abdalla, E. F. 11696  
Abdallah, F. F. 1604  
Abdel-Aal, Y. A. I. 6321  
Abdel-Hameed, A. 10404  
Abdel-Hamid, M. I. 5353  
Abdel-Kader, M. I. A. 10640  
Abdel-Kader, M. S. 3861  
Abdel-Kawy, A. G. M. 2396  
Abdel-Mallek, A. Y. 6376, 10640  
Abdel-Nasser, M. 7580  
Abdel-Rahman, S. Z. 4320  
Abdel-Reheim, E. 1349  
Abdel Salam, K. A. 10417  
Abdel-Sater, M. A. 10420  
Abdelrahman, A. A. 4668  
Abdelrahman, H. E. 5710  
Abdollahi, A. 4374  
Abdoun, K. 11230  
Abdukerim, M. 5093  
Abdul Kareem, A. 10894  
Abdulla Koya, K. M. 810, 8962  
Abdullah, A. R. 9609  
Abdullah, M. 1510, 6721  
Abdullah, M. A. R. 12002  
Abdurahiman, U. C. 1991, 9097, 9384  
Abdovakhobov, A. A. 270, 518, 4253, 4357, 11690  
Abe, H. 9966  
Abe, N. 7824, 9564  
Abe, T. 10938  
Abe, Y. 149, 10101, 10423, 11306  
Abell, M. T. 8592  
Abgrall, J. F. 2664  
Abisgold, J. D. 3810, 5859  
Abivardi, C. 9545  
Abo-El-Seoud, M. M. 11813  
Abo-Elghar, G. E. 4264  
Abo-Moch, F. 6305, 10371  
Abol-Ela, S. 7441-7442, 10444  
Abot, A. R. 5245, 6260  
Abou-Awad, B. A. 8241, 10949  
Abou-Bakr, H. 1715  
Abou-Fannah, S. S. M. 8281  
Abou-Zeid, N. A. 1604  
Abouzid, A. M. 3282  
Abraham, C. V. 3450  
Abraham, E. G. 9218  
Abraham, V. A. 4625  
Abrahamson, W. G. 8974, 11023  
Abrams, J. M. 7037  
Abrams, P. A. 4026  
Abreu Neto, A. R. M. V. 8332  
Abro, G. H. 2403, 6586  
Abrol, D. P. 4790  
Absar, N. 3240, 3244  
Abud-Antun, A. 251  
Abudu, W. 276  
Abulfatih, H. A. 12002  
Acajabon, F. 4366  
Acharya, L. 9348  
Acharya, M. F. 5582, 11941  
Acharyulu, B. S. S. 8653  
Achterberg, C. van 2842-2843, 2859, 4854, 5810, 6984-6985, 9093-9095, 9374, 11108-11109  
Achterberg, E. P. 2354  
Ackermann, H. W. 3281  
Ackland, D. M. 5788  
Acosta, A. 2515, 5479  
Acosta, F. J. 1465, 6150  
Acosta, Z. 7579  
Acosta G., A. 869  
Adachi, I. 7848  
Adachi, L. T. 4514  
Adachi, T. 2899  
Adam, G. 5399  
Adamek, E. 457  
Adamek, J. 7437  
Adames, F. N. Soto- 5986  
Adamo, S. A. 138, 3953, 6165  
Adams, C. J. 708, 4672, 8843  
Adams, E. S. 213, 7222, 9295, 11407  
Adams, H. 2611  
Adams, J. R. 4142, 8434  
Adams, L. F. 11479  
Adams, R. H. 3180  
Adams, S. M. 264  
Adang, M. J. 162, 1046, 7464, 11588  
Addae-Mensah, I. 6865  
Addicott, J. F. 1741, 8000  
Addison, J. A. 1374  
Addison, M. F. 8764  
Addison, P. J. 2217, 6508, 6578  
Addison, R. F. 6354  
Adebayo, T. A. 8952  
Adedire, C. O. 3819  
Adejuyigbe, T. A. 5354  
Aden, L. B. 2925  
Adenuga, A. O. 608  
Ader, G. 980  
Adesina, A. A. 7694  
Adesiyun, A. A. 8657  
Adeyeye, A. 6882  
Adhikari, S. 9459  
Adhikary, R. K. 3680  
Adhikary, S. P. 9622  
Adhya, T. K. 9547  
Adité, A. 8984  
Adityachaudhury, N. 5284  
Adkins, E. 3973  
Adkins, S. 11516  
Adkins, S. W. 11036  
Adlbauer, K. 2030  
Adler, J. H. 8600  
Adler, L. S. 11022  
Adler, P. H. 4630, 9442  
Adler, P. N. 7119, 8194  
Adule, V. M. 694, 3015  
Adul, G. O. 10680  
Aebischer, N. J. 4409, 10691  
Aerny, J. 2547  
Aeschlimann, J. P. 8637, 9031  
Afféri, F. S. 3558  
Affleck, W. 4686  
Affi, F. A. 633, 8737-8738  
Afkhani, B. L. 8562  
Afkhani, P. 3266-3267  
Afonina, V. M. 9417  
Aftab, M. 2498  
Afzelius, B. A. 928  
Agafonova, N. K. 10122  
Agaisse, H. 7387, 11491  
Agapova, O. A. 4990  
Agar, S. 1317, 1323  
Agarwal, G. P. 3630, 11475  
Agarwal, H. C. 84  
Agarwal, M. L. 6718  
Agarwal, R. A. 4302  
Agarwala, B. K. 1992, 8723, 11341  
Agassiz, D. J. L. 8946, 9422, 12029  
Agelopoulos, N. G. 5492  
Aglia, A. 9405  
Agnello, A. M. 6648  
Agnihotri, N. P. 4329, 7765, 8583, 8616, 10652, 11824  
Agosti, D. 1817, 8051  
Agostinho, S. M. M. 6769  
Agostini de Manero, E. 3508  
Agoze, M. E. 5170  
Agrawal, B. L. 3450  
Agrawal, R. K. 5497, 5698  
Agrawal, S. C. 2824  
Agrawal, V. 463, 11396  
Ågren, J. 6591  
Agret, S. 11717  
Agricola, U. 1562  
Agro-Chemicals News in Brief 5350  
Aguadé, M. 1042, 3871, 10236  
Agudelo-Silva, F. 11244  
Agui, N. 2972  
Aguiar, E. L. 1710  
Aguilar, A. 7617  
Aguilar, F. 10478  
Aguilar, H. 5115  
Aguilar, R. 8299  
Aguilar-Henonin, L. 2198  
Aguillera, M. M. 10449  
Agyakwa, C. W. 6568  
Ahamed, M. 2870  
Ahmadsahib, K. I. 440, 2278, 5280  
Aharanson, N. 9394  
Aheer, G. M. 8059  
Aheibam, R. K. 6215  
Ahi, J. 989  
Ahlers, J. 7512  
Ahlquist, P. 11516  
Ahlsdorf, B. 487  
Ahmad, A. 2546, 5894  
Ahmad, H. 5512  
Ahmad, I. 2468, 2546, 4893, 4905, 9088  
Ahmad, M. 8462, 11949, 11970  
Ahmad, M. D. E. 10886  
Ahmad, M. R. 6725, 11949  
Ahmad, N. 3619  
Ahmad, S. 553, 1437, 9331  
Ahmad, T. R. 851, 10843  
Ahmad, V. U. 1721, 6398  
Ahmad, Z. 5610  
Ahmadi, A. A. 674  
Ahman, I. 5405  
Ahmed, A. 9007  
Ahmed, A. A. 5259  
Ahmed, A. O. 5710  
Ahmed, H. M. 1198  
Ahmed, I. 2879  
Ahmed, M. 6868, 9007  
Ahmed, M. S. 6868  
Ahmed, M. S. H. 176, 7839  
Ahmed, M. Y. Y. 11048  
Ahmed, N. N. 690  
Ahmed, S. 808  
Ahmed, S. I. 5238, 5623, 7901  
Ahmed, S. M. 11813  
Ahmed, S. N. 5752  
Ahmed, S. R. 2314  
Ahmed, Z. A. 11048  
Ahn, H. S. 6964  
Ahn, J. C. 5237  
Ahn, S. B. 6599, 11375-11376  
Ahn, Y. J. 11700  
Ahlund, H. 10302  
Ahokas, J. T. 1334, 10566  
Ahouissoussi, N. B. C. 2642  
Ahounou, M. 9272, 9407  
Ahsan, M. M. 3407, 6213  
Ai, H. 9154  
Aidara, S. 11717  
Aiello, A. 8859  
Aiello, V. R. 5865  
Aifaoui, A. 6445, 6450  
Aigaki, T. 7042  
Aiken, J. M. 8112  
Ainong, Z. 10805  
Aïoun, A. 4195, 4200  
Aizen, M. A. 2102  
Ajala, S. O. 7679, 9708  
Ajay Singh 4302  
Ajayi, O. 4761  
Ajit Kumar 9341  
Ajuonu, O. 8984  
Akagi, S. 2148  
Akam, M. 1019, 11137  
Akamou, F. 9916  
Akanda, A. M. 11822  
Akashe, V. B. 11736  
Akashi, H. 5990  
Akashi, S. 3320  
Akashio, N. 9966  
Akbar, S. 8059  
Åkerblom, M. 9398  
Akhauri, R. K. 7742  
Akhmetova, V. R. 518, 3304  
Akhtar, K. 11597  
Akhtar, M. 3270, 8833  
Akhtar, M. H. 2330, 4797, 5748  
Akhtar, M. S. 6208  
Akhtar, N. 2786  
Akhurst, R. J. 4196  
Akimoto, S. 4712, 4890, 5035, 6763  
Akingbohunge, A. E. 6568  
Akinlosotu, T. A. 6568  
Akiyama, Y. 7338  
Akoa, A. 4682  
Akpagana, K. 6865  
Akram, M. 1510  
Akre, R. D. 1988, 3939  
Al-Abssi, A. S. A. 7441  
Al-Assir, I. A. 7833  
Al-Assiuty, A. I. M. 11752  
Al-Bitar, L. 10826  
Al-Garni, S. M. 5356  
Al-Izzi, M. A. J. 8240  
Al-Maliky, S. K. 8240  
Al-Menoufi, O. A. 8008  
Al-Moufry, S. A. 3330  
Al-Nasr, E. S. 2626  
Al-Taweel, A. A. 176, 7839  
Alaeddinoglu, N. G. 3266-3267, 10656  
Alahiotis, S. N. 11277  
Alam, J. 5338  
Alam, M. 6138  
Alam, M. A. 7458  
Alam, M. M. 6138  
Alam, M. O. 3407  
Alam, M. S. 2452, 3116, 9007  
Alam, M. Z. 2870, 11372, 11822, 12074  
Alam, S. N. 5434  
Alamo, S. 315  
Alao, C. R. 2530  
Alaoui, A. 8503, 9560  
Alarcon, C. 3780  
Alatorre-Rosas, R. 447, 2199, 6256  
Alaux, T. 10682  
Alauzet, C. 2008  
Alavez-Solano, D. 9978  
Alba-Avila, A. de 7932  
Albaiges, C. P. J. 5329  
Albajes, R. 2427, 6817, 11713  
Albanis, T. A. 3403  
Albelda, C. 5734  
Alberico, M. 2092  
Albert, I. B., Jr. 1504  
Albert, P. J. 1703, 4726  
Albert, R. 9044, 10832  
Albíter, J. P. 3388  
Albornoz, J. 7130



- Albous, J. 7976  
 Albrecht, A. 10334  
 Albrecht, U. 5215  
 Albuquerque, G. S. 317, 2136  
 Albütt, R. 7169  
 Alcaraz, M. 10357  
 Alcázar, J. 3506, 8709  
 Alcock, J. 7179  
 Aldana, R. C. 10559  
 Aldebis, H. K. 330, 2173, 4146, 6395, 7432, 7624  
 Alder, L. 2334  
 Alderweireldt, M. 203, 3223, 5418  
 Aldous, C. 8536  
 Aldrete, A. N. G. 1850  
 Aldrich, J. R. 975, 1398-1399, 2666, 7062, 7502, 7517  
 Aldryhim, Y. N. 9747  
 Alebeek, F. A. N. van 10045  
 Aleksic, I. 8237  
 Alencar, J. A. de 2507  
 Alexander, A. B. 6822  
 Alexander, K. N. A. 3103, 8288, 8985  
 Alexander, M. 513  
 Alexandre, E. 5955  
 Alfaro, R. I. 779  
 Alford, A. R. 10680  
 Alfutuh, I. M. A. 6313  
 Alghali, A. M. 595-596, 1499  
 Ali, B. 372  
 Ali, I. 1312  
 Ali, M. 11822  
 Ali, M. A. 851, 10843  
 Ali, M. I. 1509, 1635, 3270, 3614, 5611, 8833, 9947  
 Ali, M. I. M. 11514  
 Ali, M. K. 9844  
 Ali, M. R. 3614  
 Ali, M. S. 1721  
 AliNiazee, M. T. 4612, 6070  
 Alink, G. A. 634  
 Alioto, D. 3521  
 Alipaz, N. J. 8756, 9862, 11878  
 Ali, J. N. 2424, 6463, 8651  
 Allais, J. P. 4723, 6178, 9268  
 Allan, D. J. 6695  
 Allan, E. J. 4381, 4764  
 Allardi, J. 8574  
 Allawi, T. R. 11369  
 Allefs, S. 9946  
 Allegro, G. 8877, 10946  
 Allemand, R. 3211, 3248, 11439  
 Allen, A. 10315  
 Allen, D. 2382  
 Allen, E. L. 9449  
 Allen, G. 8234  
 Allen, G. R. 3958  
 Allen, M. 296  
 Allen, P. J. 12080  
 Allen, P. W. 7598  
 Allen-Williams, L. J. 7775  
 Allender, W. J. 796, 2384  
 Alles, D. 183  
 Allison, D. 8368, 11007  
 Allison, J. C. S. 7216  
 Allison, M. J. 2266  
 Allo, M. R. 3837, 9132  
 Allotey, J. 836, 9005  
 Allsopp, P. G. 1612, 2608, 4066, 5585, 5879, 7877, 10009, 11950  
 Alton, J. D. 10516  
 Alm, S. R. 6815  
 Alma, A. 658, 11865  
 Almaraz, L. B. 547  
 Almeida, A. A. de 4495, 8549  
 Almeida, A. M. R. 10768  
 Almeida, J. R. de 1985  
 Almeida, L. C. de 3938  
 Almeida, M. D. de 1985  
 Almey, H. E. 78  
 Aloï, L. E. 958  
 Alomar, O. 7788  
 Alonso, M. E. 1730  
 Alonso, O. 9475  
 Alonso, R. M. 1689  
 Alonso-Amelot, M. E. 410  
 Alonso-Mejía, A. 146, 5624  
 Alonso Padron, R. M. 1689  
 Alonso-Pimental, H. 9386  
 Alonso-Zarazaga, M. A. 6971  
 Aloo, I. K. 778  
 Alphen, J. J. M. van 306, 7345, 10365, 11310  
 Alpízar M., D. 5030  
 Alston, D. G. 650, 10617  
 Altenburger, R. 5319  
 Altenkirch, V. W. 5669  
 Altieri, M. A. 654, 4508, 6587  
 Altman, J. S. 123  
 Altmann, F. 8171  
 Altre, J. 5244  
 Aluja, M. 5029  
 Alvarado, M. 6661  
 Alvarenga, M. 10114  
 Álvarez, A. 7310  
 Alvarez, A. 9707  
 Alvarez, C. 1517  
 Alvarez, F. A. 7867  
 Alvarez, G. 1028, 10236  
 Alvarez, J. 1239  
 Alvarez, J. M. 2515  
 Alvarez, R. 7587, 10622  
 Alvarez, T. 1984  
 Alvarez A., J. M. 5479  
 Alvarez Castillo, A. 2894  
 Alvarez Castillo, H. A. 4484, 7750, 10782  
 Alvarez Pujadas, G. 8817  
 Alvarez R., J. A. 5032  
 Alves, J. B. 1661, 3639  
 Alves, R. T. 9672  
 Alves, S. B. 5232  
 Alviar, E. N. 474  
 Alviña, A. 10125, 10818  
 Alzaga, R. 10514  
 Amador, R. 626  
 Amalin, D. M. 4988  
 Amamo, H. 613-614, 789, 3106, 10798  
 Amaral, J. 7717  
 Amaral, J. J. 6054  
 Amaral Filho, B. F. 9017  
 Amarasinghe, L. D. 8406  
 Amarell, U. 1637, 7944  
 Amaro, P. 8460  
 Amatobi, C. I. 1488, 11785  
 Ambadkar, P. M. 6898  
 Ambolet, B. 10699  
 Ambrogioni, L. 5674  
 Ambrosano, G. M. B. 2079  
 Ambrosch, A. 10465  
 Ambrose, D. P. 5024-5025, 10915  
 Ameenuddin, N. 9163  
 Amengual, J. 161  
 Amer, S. A. A. 7984  
 Amer, S. M. 5307  
 Ames, R. G. 8531  
 Ames, T. 8709  
 Amiad, M. 2893  
 Amiani, H. 3836, 5122  
 Amichot, M. 5884  
 Amitava Bhattacharya 5284  
 Ammar, E. D. 3286, 4168, 10458  
 Ammer, U. 1642  
 Amor-Prats, D. 10017  
 Amoudi, M. A. 8281  
 Ampomg-Nyarko, K. 5417  
 Amrhein, J. F. 11637  
 Amrine, J. W. 3727  
 Amrine, J. W., Jr. 5534, 7828  
 Amzar, V. 9846  
 An, F. C. 4298  
 An, J. H. 2550  
 An, R. F. 10848  
 An, S. L. 11120  
 Anagnostakis, S. L. 253  
 Anagnou-Veroniki, M. 7869  
 Anami, H. 2714  
 Anand, M. 7029, 8469  
 Anand, R. 7029  
 Anand, R. K. 903  
 Ananthakrishnan, T. N. 196, 7163, 7873, 10069  
 Ananthalakshmi, K. V. V. 9469-9470  
 Ananthbandhu Chaudhuri 345  
 Anaya, A. L. 6400  
 Andaloro, J. T. 549  
 Anderbrant, O. 2021, 7949, 8909, 10188  
 Anders, M. M. 7741  
 Andersen, A. 2406  
 Andersen, A. N. 740, 2085, 10246  
 Andersen, J. 77, 1208, 10974  
 Andersen, J. L. 10525  
 Andersen, K. J. 11997  
 Andersen, P. C. 10003  
 Andersen, S. O. 3862, 5944-5945, 7030, 8118  
 Anderson, D. M. 3777  
 Anderson, G. C. 10436  
 Anderson, J. A. 4406  
 Anderson, J. C. 525, 1731  
 Anderson, J. W. 11656  
 Anderson, K. 6877  
 Anderson, L. W. J. 2751, 6074, 6850  
 Anderson, M. 4883, 5832  
 Anderson, M. J. 5291  
 Anderson, P. 7202, 10169  
 Anderson, R. 2837  
 Anderson, R. S. 4853, 5073, 6526  
 Anderson, S. H. 895, 2579  
 Andersson, K. 7021  
 Andersson, L. A. 3865  
 Andersson, P. 7472  
 Andjelković, M. 2961  
 Andlauer, W. 1382  
 Ando, M. 3679, 8493  
 Ando, S. 3802  
 Ando, T. 984, 5207, 9574, 9966  
 Andos, S. 10551  
 Andow, D. A. 5389, 9535  
 Andrade, L. E. 3909  
 Andrade, M. G. 7250  
 András, M. 7647, 11549  
 André, M. 4734  
 Andre, M. 4885-4886  
 Andreadis, T. G. 2708, 9382  
 Andressen, B. 10284  
 Andreev, D. 4255  
 Andreev, R. A. 8387  
 Andreeva, L. 7474  
 Andres, A. J. 7137, 8193  
 Andreu, E. 1368, 7559  
 Andreu-Moliner, E. 1369, 2333, 4287, 4305  
 Andrew, D. J. 7144  
 Andrews, F. G. 9740, 11089  
 Andronie, V. 478  
 Andrup, L. 5229  
 Ang, B. N. 2258, 2765, 6845, 7360  
 Angel, J. 3980, 9305  
 Angeles, A. T. 6484-6485, 11246  
 Angeli, G. 11856-11857  
 Angelini, R. 7625  
 Anger, W. K. 10571  
 Anglade, P. 3977  
 Angle, G. W., Jr. 4251, 11602  
 Anguiano, O. L. 10590  
 Anil Kumar 7585  
 Anilkumar, A. S. 9041  
 Anilkumar, D. M. 5314  
 Anjaneyulu, A. 6936  
 Anjos, N. dos 5635  
 Anken, R. H. 9360  
 Ankley, G. T. 1345, 8580, 10653-10654  
 Anleitner, J. E. 1049  
 Annadurai, R. S. 142  
 Annells, A. J. 3487  
 Annis, P. S. 5774  
 Annual Report - Pesticide Action Network Asia and the Pacific 3714  
 Annys, K. 2162  
 Ansaï, K. 11497  
 Ansari, I. M. 5934  
 Ansari, M. A. 1493  
 Ansari, M. M. 1456  
 Anshelevich, L. 2564, 2574, 6669  
 Anspaugh, D. D. 5889, 10556  
 Anstee, J. H. 4950, 10155-10156, 10158  
 Anstett, M. C. 10364  
 Anthony, N. 9399  
 Anthony, W. S. 8048  
 Antilla, L. 3620  
 Antipanova, E. M. 10137  
 Antle, J. M. 416, 476  
 Antolin, M. F. 5975  
 Antón, F. A. 7523  
 Anton, S. 5834, 9191  
 Antonacci, D. 11884  
 Antonelli, A. 3663  
 Antonelli, A. L. 5184, 5450  
 Antoniadou-Vyza, E. 3364  
 Antoniewski, C. 3887  
 Antonio, C. 1929  
 Antonious, G. F. 4519, 4528, 9596, 10612  
 Antor, R. J. 7151, 8973  
 Antropoli, A. 11444, 11853  
 Antunes, R. V. 10903  
 Antwerpen, R. van 7103  
 Anuvrat Sharma 8481  
 Anversa, M. M. 10285  
 Anwar, A. 2567  
 Anwar, W. A. 3387  
 Anxolabère, D. 1027, 1952  
 Aoki, A. 8493  
 Aoki, S. 1352, 4765, 4832, 5649, 6774, 10111, 10956  
 Aoki, Y. 4272  
 Aotsuka, T. 1044, 4044  
 Aoyagi, M. 4119  
 Apablaza, J. U. 9269  
 Aparup Das 2962  
 Aplada-Sarlis, P. 1522, 4523, 5358, 8563  
 Aplada-Sarlis, P. G. 11862  
 Appel, H. M. 6747, 8865  
 Appel, L. L. 1441  
 Appiah, S. O. 10277  
 Applebaum, S. W. 11208  
 Applegate, H. G. 8538  
 Aps, R. 461  
 AQIS Bulletin 1292-1293  
 Aquadro, C. F. 10231, 11281-11282  
 Aquino, L. H. de 5595  
 Aquino, R. R. 3473  
 Arad, Z. 1132  
 Arai, N. 9319  
 Arakaki, N. 329, 5560  
 Arakawa, R. 6039, 8492  
 Arakawa, T. 5895, 10175  
 Araki, Y. 6498  
 Aranda, E. H. 3336  
 Arango S., G. 2474  
 Araújo, A. M. de 5011  
 Araújo, C. Z. D. 8248  
 Araújo, J. 5886  
 Araújo, J. R. de 1610  
 Araya, H. 3320  
 Araya, J. E. 8634, 10706, 11006  
 Araya, K. 5632  
 Araya S., F. 4466, 9741  
 Arbeláez T., G. 869  
 Arbogast, R. T. 11419  
 Arbrile, G. 11882  
 Arce de Hamity, M. G. 182, 9754  
 Archbold, D. D. 8771  
 Archer, M. E. 2838, 3120, 11350  
 Archer, T. L. 6441, 7547  
 Archibald, B. A. 5106, 9385, 11639  
 Arcidiacono, S. 11247  
 Ardales, S. 10657  
 Arditti, J. 2728  
 Arena, J. P. 8132  
 Arenas, J. C. 6351  
 Arendt, D. 156  
 Arévalo-Niño, K. 4166, 6124  
 Argaman, Q. 6985  
 Argandoña, V. H. 3435, 4394, 8598  
 Argaud, O. 10416  
 Argauer, R. J. 2061  
 Argentine, J. A. 4269  
 Argese, E. 10624



- Argov, Y. 3555  
Argyropoulou, M. D. 3128, 3641  
Arias, A. 6148, 7325  
Arias, M. 3470  
Arias de López, M. 8781  
Arias G., F. 1643  
Ariati, I. G. C. 933  
Aribi, B. 5854  
Arida, G. 7713  
Arienzo, M. 4337  
Arif, B. M. 9464  
Arif, M. 631  
Arima, E. Y. 8419  
Arima, R. 984  
Arimura, T. 6570  
Ariño, A. 5336  
Ariño, A. A. 2298  
Ariño, J. 6609  
Aripova, F. Kh. 10925  
Arita, T. 2360, 2967  
Arita, Y. 5633, 11992  
Arkhipova, I. R. 9251  
Arlot, M. P. 510  
Armbrust, E. J. 6519  
Armbruster, W. 1382  
Armelin, M. C. S. 10410  
Armer, C. A. 1636  
Armes, N. J. 5302, 10543  
Armitage, D. M. 4802, 10044  
Armstrong, G. 11791  
Armstrong, A. 11772  
Armstrong, A. J. 8671  
Armstrong, A. M. 3518-3519, 3527  
Armstrong, C. L. 9713  
Armstrong, J. S. 11725  
Armstrong, J. W. 10029-10030  
Arnal, E. 2534  
Armason, J. T. 8015, 8645, 8652, 9151, 9697, 9710, 10207, 11322, 11701  
Arndt, E. 947, 8055  
Arndt, U. 8605  
Ame, C. N. 11499  
Arnett, R. H., Jr. 8037  
Arnò, C. 658  
Arnò, J. 6609  
Arnold, J. E. 11198  
Arnold, M. D. 4665  
Arnold, M. L. 8340  
Arnold, T. W. 2328  
Amone, S. 2231  
Amtzen, C. J. 10075  
Aron, S. 5136, 6017, 9310  
Aronson, A. I. 357  
Aronstein, K. 1920, 9399, 9833  
Arora, C. L. 8470  
Arora, R. 689, 7895  
Arpaia, M. L. 2577  
Arpin, P. 3083  
Arredondo-Bernal, H. C. 3440, 11730  
Arrese, E. L. 5878  
Arretz, P. 11006  
Arretz V., P. 10706  
Arriaga, H. O. 547  
Arriaga, L. 8849  
Arroyo, M. 6290  
Arteel, G. E. 10936  
Artés, F. 8992  
Arthington, A. H. 11617  
Arthur, C. L. 10643  
Arthur, F. H. 2780, 2784, 6874, 9008, 10039, 11042-11043  
Arthur, V. 1965, 8239, 9262, 10031  
Artiago, D. 4995, 11243  
Arufe-Martínez, M. I. 11677  
Arutyunova, N. V. 2555  
Arvanov, V. L. 5201  
Arya, D. R. 1446, 6888  
Arya, K. R. 9920  
Arzone, A. 658, 9666, 11865  
As, S. 1683  
Asad, S. 2498  
Asada, N. 6005  
Asaga, H. 2924  
Asahina, K. 11579  
Asahina, M. 134  
Asaka, A. 4346  
Asaki, H. 3320  
Asami, N. 98  
Asami, T. 1923, 9115  
Asano, S. 1245, 4163, 4165, 7463, 8718, 10351, 10418, 10421  
Asante, S. K. 6639, 7814  
Asaoka, K. 10393  
Asari, S. 10829  
Asari, S. I. 978  
Asawa, K. 12051  
Asawa, T. 11492  
Ascher, K. R. S. 3422, 6305  
Aselage, J. M. 6413  
Asensio, J. S. 6644  
Asgari, N. 10656  
Asgari, S. 324  
Ashburner, M. 11266  
Ashby, C. B. 2841  
Ashby, J. E. 7652  
Ashe, J. S. 4877  
Ashe, P. 3635  
Ashida, M. 7041  
Ashihara, W. 5541  
Ashok Bhatnagar 10726  
Ashok Reddy 5436  
Ashwani Sharma 11682  
Ashwath, S. K. 346  
Ashworth, P. 5750  
Asikidis, M. D. 3641  
Asino, G. O. 4413  
Asis, J. D. 10002  
Askani, A. 5108, 11886  
Aslam, M. 1989, 3299  
Aso, Y. 2906  
Aspi, J. 7182, 7192  
Aspmo, R. 5367  
Aspöck, U. 907, 916  
Asquith, A. 6396, 11103  
Assael, F. 9988, 12009  
Assal, O. M. 9610  
Asselbergs, J. E. F. 4685  
Assimacopoulos, S. 2953  
Assis, R. 9497  
Assis, S. L., Jr. 5635  
Astarita, C. 8355  
Astolfi Fo., S. 10892  
Aston, W. P. 3868  
Astudillo M., A. M. 5116  
Ata-Ul-Mohsin 1528, 3006  
Atachi, P. 9272, 9407  
Atamuradov, K. I. 10293, 11073  
Atay, Z. K. 8503  
Ateş, A. 9793  
Athayde, M. L. F. 2486  
Atirattanapunya, W. 2738  
Atiyeh, R. 3299  
Atkins, G. 11202  
Atkinson, D. 2207, 2814  
Atkinson, D. S. 11762, 11762  
Atkinson, J. 8015  
Atkinson, J. K. 11217  
Atkinson, T. H. 12, 4043, 6893  
Atlegrim, O. 11470  
Attah, P. K. 540  
Attathom, T. 11498  
Attaway, J. A. 9659  
Attia, A. M. 11632  
Attia, M. B. 3441  
Attique, M. R. 5610  
Attygalle, A. B. 2916, 9180, 10166  
Atu, U. G. 5471  
Atwal, B. S. 1313  
Atwal, J. K. 2299  
Atwood, K. C. 1045  
Auclair, P. 3281  
Aucoin, R. 9151  
Audas, A. 6079  
Audet, D. J. 2290  
Audisio, P. 11845  
Audisio, P. A. 9077  
Audsley, N. 5902  
Auer, A. 9624  
Auerswald, L. 9170  
Auger, M. A. 763, 4723, 8903  
Augier, R. 9205  
Augner, M. 400  
Augustijn-Beckers, P. W. M. 406  
Augustin, S. 6760, 8878  
Augustyniak, B. 3394  
Aukema, B. 1118, 1166  
Aulard, S. 2992  
Aulerich, R. J. 3355-3356  
Ault, J. G. 10211  
Auman, H. J. 1346  
Austin, A. D. 5172, 8049  
Austin, R. B. 1414  
Australia, CSIRO, Stored Grain Research Laboratory 8029  
Australia, Stored Grain Research Laboratory 855  
Autio, W. R. 6641  
Avalos, D. S. 11773  
Ave, D. 7453  
Averill, A. L. 7061  
Averill, A. M. 7061  
Avery, J. W. 4367, 6285  
Avery, M. L. 448  
Ávila, C. J. 4457  
Ávila, C. J. 8644  
Ávila, J. L. 410  
Ávila, J. M. 6970, 7287  
Ávila Rosenthal, M. de 9378  
Áviles, R. 8695  
Ávilla, J. 6650  
Avinash Jain 8894  
Avivi, T. 1132  
Avramides, E. J. 7567  
Awadallah, K. T. 11432  
Awan, M. S. 2403, 2489  
Awasthi, A. K. 7128  
Awasthi, M. D. 6614  
Aweke, G. 11018  
Axelsen, J. 2409  
Axelsen, J. A. 2592  
Ayal, Y. 795, 1739  
Ayala, F. J. 4926, 4996  
Ayali, A. 5941  
Aydinoğlu, H. 1317  
Ayers, D. 7885  
Ayers, R. H. 6286, 11320  
Ayertey, J. N. 6900  
Aylmore, L. A. G. 3405  
Ayres, M. P. 1674, 3634  
Ayres, P. G. 4784, 11012  
Ayub, M. A. 2498  
Ayyappath, R. 10618  
Ayyildiz, N. 4859  
Azam, K. M. 6474  
Azbell, J. 375  
Azevedo, J. L. 8414  
Azevedo, M. 10892  
Azevedo-Ramos, C. 7904  
Azim, C. A. 7128  
Aziz, F. 5338, 11643  
Aziz, N. H. 1272  
Azizbekyan, R. R. 9523  
Azmi, M. A. 11597  
Azrag, A. K. 1449  
Azuma, J. I. 8996  
Azuma, K. 2576  
Azuma, M. 2929, 3250  
Azuma, S. 5079  
Azuma, Y. 3250  
Azzoni, P. 2984  
Ba, A. S. 9214  
Ba, D. D. 893  
Baaren, J. van 5157, 10257  
Baatrup, E. 11646  
Baba, Y. 7073  
Babaev, B. N. 4253  
Babos, M. 3681  
Babu, C. J. 847  
Babu, C. K. 8017  
Babu, K. S. 340  
Babu, P. C. S. 2404, 2459, 3595, 11928  
Babu, T. R. 1473  
Bača, F. 6460, 6464-6466  
Baca, L. B. 10261  
Baccetti, C. 9665  
Bacchetta, L. 2231, 6563  
Bacci, E. 5347  
Bacci, M., Jr. 10285  
Bach, C. 10412  
Bach, C. E. 3644-3645, 4702, 5651  
Bach, D. 9310  
Bache, D. H. 8483  
Bächli, G. 812  
Bachmann, H. 10300  
Bachmann, L. 929  
Bachmann, O. M. 10627  
Bachofen, B. 8571  
Backeljau, T. 4696, 9076  
Backhaus, G. F. 1716, 4574, 10934  
Backhaus, H. 4171, 5212  
Backus, E. A. 3984, 4395, 10750, 11500  
Backus, V. L. 9414  
Bacon, E. T. G. 7652  
Bacon, P. E. 2662, 6751  
Badaya, A. K. 4582, 8828  
Bade, B. A. 7865  
Badejo, M. A. 5354  
Badenhausser, I. 6705, 8683  
Badii, M. H. 3336  
Badmin, J. 395  
Badowska-Czubik, T. 6329  
Badr, N. A. A. 3064-3065  
Bae, S. D. 11747  
Bae, T. W. 11464  
Bae, Y. H. 11748  
Bae, Y. S. 5092, 5786, 9064, 10112  
Baehrecke, E. H. 8112  
Bækken, T. 5327  
Baena, M. L. 2092, 10559  
Baez, M. 2039  
Báez, M. E. 5292  
Bagatto, G. 2760, 4572  
Bagchi, D. 2287  
Bagchi, M. 2287  
Baggaley, T. B. 127  
Bagine, R. K. N. 4127  
Bagle, B. G. 9818, 11907  
Bagneres, A. G. 7028  
Bagnoli, B. 9875  
Bagwell, R. D. 2311  
Bahadir, M. 11667  
Bahal, V. K. 2502  
Bahari, I. B. 6013  
Bahjou, A. 96  
Bahl, A. 11471  
Bahler, C. C. 3482  
Bahreini, R. 4090  
Bahuguna, V. K. 2665  
Bai, B. 190, 9528  
Bai, B. B. 4721  
Bai, C. 7068  
Bai, J. W. 10893  
Bai, L. X. 711  
Bai, W. H. 8673  
Baibakova, O. V. 2593  
Baicu, T. 7524  
Baier, P. 303  
Baier, U. von 5066  
Baig, M. 2176, 9468, 9470-9471, 11523  
Bailey, A. J. A. 3933  
Bailey, D. A. 12021  
Bailey, J. A. 9714  
Bailey, J. D. 1355  
Bailey, K. E. J. 8288  
Bailey, L. A. 7469  
Bailey, P. T. 10869  
Bailey, R. R. 3080  
Bailey, S. M. 9692  
Bailey, S. W. 509  
Bain, J. 531  
Bainbridge, B. W. 8441  
Bainbridge, Z. 5743  
Baines, D. 2696  
Baines, M. M. 2696  
Baiocco, L. M. 1856  
Baird, D. B. 6270  
Baith, B. D. 7996  
Bajet, C. M. 1459  
Bajpai, P. K. 5586  
Bajpeyi, C. M. 9341  
Bak, J. 4742  
Baker, B. R. 8046  
Baker, C. A. 2415  
Baker, D. B. 2853, 9647  
Baker, G. 353, 7927, 8403  
Baker, G. H. 6163  
Baker, G. J. 10869  
Baker, G. T. 56, 2868, 11729  
Baker, J. E. 4114, 9440, 9613, 11419



- Baker, J. R. 787, 7377, 4748, 12021-12022  
 Baker, M. W. 354  
 Baker, P. S. 2128, 2619, 7348  
 Baker, R. T. 9403  
 Baker, S. H. 9753  
 Baker, S. M. 10515  
 Baker, T. C. 3976, 4604, 6674, 10182, 11332  
 Bakke, A. 1698  
 Bakker, F. M. 61, 2512  
 Bakker, P. 2233  
 Bakker, P. L. 8743  
 Baklanova, O. V. 6559, 9774  
 Bakowski, G. 6580  
 Bakre, P. P. 5323  
 Bakthavatsalam, N. 1587, 7633  
 Bakwad, B. G. 9556  
 Bal, R. S. 11948  
 Bala, P. 2158  
 Balagopalan, C. 11053  
 Balaguranathan, R. 11939  
 Balakrishna Murthy, P. 2310  
 Balakrishnan, M. M. 700, 1623, 3603  
 Balamani, E. 11151  
 Balaña, J. 8223  
 Balashouri, P. 7678  
 Balasov, M. L. 11274  
 Balasubrahmanyam, V. R. 6819  
 Balasubramani, V. 3214  
 Balasubramaniam, E. 2340  
 Balasubramaniam, R. 10869  
 Balasubramanian, M. 9649  
 Balasubramanian, R. 2680  
 Balasubramanian, S. V. 464  
 Balavenkatasubbaiah, M. 9468, 9471  
 Balbiani, A. 11961  
 Balcázar, L. M. A. 4050  
 Balcázar-L., M. A. 1805  
 Balciunas, J. K. 8981, 12057  
 Baldanza, F. 6118  
 Baldauf, G. 2378  
 Baldé, M. 1475  
 Balde, M. 6411-6412, 8624  
 Baldizzone, G. 584  
 Baldoni, H. A. 6404  
 Baldwin, I. T. 3062  
 Bale, J. S. 3809, 3999, 4011, 4410, 5109, 8970  
 Bali, G. 5715, 6045, 6271  
 Bali, R. 8955  
 Baliddawa, C. W. 6417  
 Bálint, T. 8547, 11615  
 Balke, M. 1820  
 Balkenohl, M. 3122  
 Ball, B. V. 296, 3291, 6222, 7466  
 Ball, E. 1035  
 Ball, O. J. P. 6513  
 Ball, S. 11350  
 Ballard, J. W. O. 2952  
 Ballenger, N. 9620  
 Ballesteros, E. 442  
 Ballore, S. 2532, 10878  
 Ballschmitter, K. 2383  
 Balloch, A. A. 439, 4293  
 Balogun, R. A. 6145  
 Balpreet 10084  
 Balraj Singh 4440  
 Balthasar, D. M. 8473  
 Balu, K. 497, 9647  
 Balwinder Singh 6350  
 Balzaretto, C. 2767  
 Bambi, S. 5089  
 Bamborot, L. 11006  
 Bameul, F. 5783  
 Banafer, R. N. S. 1571  
 Banaszak, H. 2400  
 Banaszak, R. 2713  
 Band, H. T. 1099  
 Banda, E. 6567  
 Bandara, G. D. 8891  
 Bandara, K. A. N. P. 6895  
 Bandeira, A. G. 5628  
 Bandi, C. 6010  
 Bandla, M. D. 7476  
 Bando, H. 10421  
 Bandong, J. P. 4443  
 Bane, G. 4570  
 Banerjee, A. 9558  
 Banerjee, N. D. 7050, 8446, 9157  
 Banerjee, P. K. 23, 1693  
 Banerjee, S. 1882  
 Banerjee, S. K. 8502  
 Banerjee, T. C. 3089  
 Banerji, A. 6405  
 Banerji, R. 7990, 10815  
 Banga, S. S. 9234  
 Baniecki, J. F. 8682  
 Banks, H. J. 2816-2817, 6973  
 Bannick, C. G. 504  
 Banno, Y. 194  
 Bansal, A. K. 360, 8446  
 Bannville, M. 7445  
 Bao, A. D. 4444  
 Bao, H. L. 241  
 Bao, J. R. 2182  
 Báó, S. N. 4899  
 Bao, S. Y. 589  
 Baozhong, G. 5295  
 Bapat, D. R. 11736  
 Baqui, M. A. 3463  
 Bar-on, N. 6627  
 Bar-Yaacov, M. 8153  
 Baradat, P. 8904  
 Barahona-Gomariz, M. V. 4289  
 Baraka, M. M. 3274  
 Barakat, A. A. 11696  
 Baral, K. 10802  
 Baranchikov, Y. N. 10489  
 Baranowski, R. 1778, 1845, 6115  
 Baranowski, R. M. 673, 6099, 11775  
 Baranowski, T. 1061, 1299  
 Barash, I. 1260  
 Barata, L. E. S. 7102  
 Barba, A. 4291, 8947, 10859  
 Barba, M. 10836  
 Barbadilla, A. 7173  
 Barbarino-Duque, A. 11668  
 Barbeau, G. 6689  
 Barbehenn, R. V. 4948, 5402, 10162  
 Barber, K. N. 9600  
 Barber, L. R. 6782  
 Barbetti, M. J. 5444  
 Barbhuiya, L. 10555  
 Barbier, R. 9127  
 Barbieri, C. 12073  
 Barbosa, A. 11641  
 Barbosa, F. T. 1485  
 Barbosa, P. 4208, 4641, 6273, 7576, 9698, 10004, 10978  
 Barbosa, R. I. 4690  
 Barbosa, S. 6741  
 Barbosa, T. M. L. 3399  
 Barbudo, D. J. 7277  
 Barbujani, G. 2975  
 Barcarolo, R. 8517  
 Barcellos, A. 3768  
 Barceló, D. 495, 2292, 4345, 5112, 5361, 7520, 10356, 10514  
 Barcelos, J. A. V. 7159  
 Bardoloi, S. 4017  
 Barel, M. 2617  
 Barendregt, A. 1115  
 Barfield, C. S. 6414  
 Bargar, T. M. 8472  
 Bargel-Faul, M. 10508  
 Bariselli, M. 7809  
 Barjac, H. de 2181  
 Bark, A. W. 8111, 10603  
 Barker, A. M. 5505  
 Barker, G. M. 2217, 6508, 6512, 6515, 6852  
 Barker, I. 10687  
 Barker, J. F. 1109-1110  
 Barker, J. S. F. 2998, 3000, 6082  
 Barker, S. 9813  
 Barker, S. A. 8530  
 Barkhade, U. P. 2438  
 Barlas, N. E. 11631  
 Barlow, N. D. 6267, 6507, 7364, 11157  
 Barnard, E. L. 8898  
 Barnes, B. N. 3533, 11852  
 Barnes, J. K. 2103  
 Barnett, J. 3137  
 Barnett, O. W. 4052  
 Barnett, W. W. 6655  
 Barney, R. J. 6885  
 Barney, W. E. 2484  
 Barnhart, S. 1371-1372  
 Baroffio, C. 2115  
 Barone, S., Jr. 3350  
 Baronio, P. 8762  
 Barooah, A. K. 10620  
 Barouty, G. El. 1349  
 Barra, R. 8588, 11672  
 Barratt, B. I. P. 2217, 6502, 6512, 6521, 6524-6525  
 Barreiro-García, J. M. 6610  
 Barrera, E. 9065, 11010  
 Barrera, F. Sanz- 4289  
 Barrera, J. F. 1863, 2124, 2223, 2619, 3915  
 Barrera T., E. 2087  
 Barrett, B. A. 645, 6640  
 Barrett, G. W. 3493  
 Barrette, R. J. 8230  
 Barriga, J. E. 5688  
 Barriga T., J. E. 5629  
 Barrington, R. 5849  
 Barrio, C. S. 6644  
 Barrio, E. 1041  
 Barrion, A. A. 4988, 5835, 11246, 11740-11741  
 Barrion, A. T. 3456-3457, 7713  
 Barritt, B. H. 10845  
 Barro, P. de 5105  
 Barro, P. J. de 7297, 7672  
 Barroga, G. F. 5515  
 Barron, J. 4840  
 Barros, R. 1485, 1504, 8643  
 Barrot, M. 9204  
 Barrows, E. M. 7911  
 Barry, B. D. 2422, 2432, 6107  
 Barry, P. 53, 11303  
 Barry, T. L. 9396  
 Barson, G. 11394  
 Bartels, D. W. 9579, 10708-10709  
 Bartelt, R. J. 1546, 6674, 7060, 7822  
 Barth, F. G. 5927, 7074, 10189  
 Barthes, J. 5738  
 Bartholomew, D. P. 3719  
 Bartlett, E. 4620, 7005  
 Bartlett, A. C. 5003  
 Bartolozzi, L. 5089  
 Bartraeau, T. 10994  
 Barts, H. R. 349  
 Baruffi, L. 6010  
 Barz, W. 8689  
 Basaglia, M. 11853  
 Basappa, H. 1607  
 Basavarajappa, S. 3281  
 Basedow, T. 5494, 11722, 11817  
 Bashamohideen, M. 10607  
 Bashar, M. A. 8686  
 Bashford, R. 4675  
 Bashir, M. 7747  
 Basil, J. A. 5322  
 Basile, E. 3298  
 Basio, R. G. 11906  
 Baskali, A. 10178  
 Baskaran, R. K. M. 5580, 11935  
 Baskaran, S. 8935  
 Baspinar, H. 1566  
 Basri, M. W. 6708  
 Bass, M. 293, 3038, 9273  
 Bass, M. H. 2095  
 Basset, Y. 748, 4716  
 Bässler, U. 1897, 5913, 10183  
 Bastianini, M. 3910  
 Bastidas, H. 3472, 11742  
 Bastien, C. 8903  
 Batalha, V. C. 1205, 7020  
 Batchelor, M. A. 8795  
 Batchelor, W. D. 7714  
 Bate, M. 1924  
 Bateman, R. 7422  
 Bateman, R. P. 280, 5225, 7427, 7466, 10446  
 Bates, J. A. R. 5274  
 Bates, V. I. 5517  
 Bathon, H. 541  
 Batista Filho, A. 7487  
 Batley, G. E. 3402  
 Bátor, R. 4227  
 Batt, D. 7427  
 Battaglia, D. 11844  
 Battagazzore, M. 3400  
 Batterham, P. 2999, 6282, 7526  
 Battersby, M. 10550  
 Battisti, A. 4736, 5677, 6796, 9517, 10970  
 Battu, G. S. 9473  
 Battu, R. S. 5466, 6350  
 Battut, P. 3138  
 Batzer, H. O. 8879  
 Baucé, E. 1703, 4719, 8120, 9406  
 Baudry, J. 5703  
 Baudry, O. 1529  
 Baudry-Partioglou, N. 11230  
 Bauduin, F. 9783  
 Bauer, L. S. 10433  
 Bauer, R. 3073, 10256  
 Bauer, T. 11427  
 Baufeld, P. 7477  
 Baughman, R. G. 10515  
 Baulcombe, D. C. 9619  
 Baum, D. 3546  
 Baum, J. A. 5239-5240, 7386  
 Baumann, L. 7306  
 Baumann, P. 3911, 4981, 7306, 8220, 8347, 8422  
 Baumann, T. 1225  
 Baumann, T. W. 8607  
 Baumgärtner, J. 6547, 6549, 8714, 8762, 9788  
 Baur, A. 5143, 10220  
 Baur, B. 3804, 3959, 11147  
 Baur, M. E. 1998, 6188  
 Baur, P. 9552  
 Bausenwein, B. 5924  
 Bautista, R. C. 6263  
 Baxendale, F. P. 6506  
 Baxter, H. 885  
 Bayarri, S. 5336  
 Bayat, A. 3561  
 Bayer, E. 7512  
 Baylac, M. 8895  
 Bayley, M. 11646  
 Baynes, R. E. 11653  
 Bayona, J. M. 10514  
 Bayoumy, A. H. 2323  
 Baz, A. 2729, 8855  
 Bazar, A. 10900  
 Bazin, C. 5015  
 Bazyluk, W. 5098  
 Bazzocchi, I. L. 4763  
 Beach, E. D. 6385  
 Beadle, D. J. 1321  
 Beal, R. S., Jr. 5796  
 Beall, C. 7117  
 Bean, J. A. 9429  
 Bean, M. F. 349  
 Bearzoti, E. 5595  
 Beasley, C. A. 708, 4672, 8843  
 Beattie, A. J. 7066  
 Beattie, R. 9620  
 Beaubien, Y. 8915  
 Beauchamp, J. J. 264  
 Beaudoin, L. 1264, 5874, 6178, 7884, 9268  
 Beaudreau, G. S. 4156  
 Beauhaire, J. 10167  
 Beaumont, P. 2269  
 Beauvais, A. 7419  
 Beaver, J. 11772  
 Beaver, R. A. 1810  
 Becard, J. M. 8142  
 Beccalon, G. W. 899  
 Becchi, I. 3155  
 Becciolini, A. 2118  
 Becerra, G. F. P. 9276  
 Becerra, J. X. 4715  
 Becher, G. 8535  
 Beck, G. G. 6354  
 Beck, H. 6349  
 Beckage, N. E. 2884, 4945, 9153, 11220  
 Beckenbach, A. 5989  
 Beckenbach, A. T. 1054  
 Becker, H. 6827



- Becker, H. J. 10209  
Becker, M. 7460  
Becker, P. R. 472  
Becker, V. O. 3108, 6955, 10124  
Beckers, R. 5136  
Beckert, J. 7606  
Beckert, W. F. 2058  
Beckett, A. 4184  
Beckman, O. H. 5906  
Beckwitt, R. 11247  
Becnel, J. 10429  
Bédard, C. 11533  
Bédau, J. 11605  
Bédau, J. J. M. 9543  
Beddie, D. G. 11589  
Bedell, P. E. 2825  
Bedford, E. C. G. 7815  
Bedford, I. D. 4207, 4209  
Bedin, P. 600  
Bedos, A. 10081  
Bedoyan, J. K. 85, 4912  
Beeby, A. 4134  
Beech-Garwood, P. 5662  
Beek, T. A. van 2923, 3417, 4355, 6582, 7780, 11818  
Beeman, R. W. 4255, 6001, 8215, 9239  
Beenackers, A. M. T. 2083  
Beer, M. de 10888  
Beerwinkle, K. R. 1097  
Beeson, C. F. C. 888  
Beestman, G. B. 5719  
Beetham, J. K. 4914  
Beetsma, J. 304, 3234, 4089, 7352, 8388  
Beeuwen, J. van 7068  
Beevi, S. P. 1588, 9649  
Beever, P. S. 7631, 9717  
Beevy, J. L. 11345  
Beg, M. U. 9920  
Beggs, J. R. 3119  
Begon, M. 246, 4138, 4162, 4205, 8387  
Begum, A. 3462  
Begum, G. 1366, 6361, 11621  
Begun, D. J. 10231  
Behan-Pelletier, V. M. 5798  
Behera, K. S. 8983  
Behera, M. K. 211, 1490, 8189  
Behera, P. K. 1483, 8698  
Behie, L. A. 269  
Behki, R. M. 4326  
Behle, R. W. 4432  
Behmer, S. T. 2473, 8144  
Behrends, H. 3247  
Behrens, U. 1269  
Bei, Y. W. 10139  
Beiderbeck, R. 5108, 11886  
Beinbrech, G. 980  
Beingolea G., O. 7488  
Beintema, J. J. 11228  
Beiswenger, R. E. 895  
Beitia, F. 7318  
Beitz, H. 10658  
Bekkaoui, A. 2238  
Bélair, G. 2220, 10789  
Béland, P. 1342  
Belardi, R. P. 10643  
Belavadi, V. V. 1581  
Belcari, A. 11933  
Belefant-Miller, H. 2418  
Belelli, D. 11268  
Belgium, Ecotoxicity Section of CSTE/EEC 486  
Belgium, Provincial Onderzoek- en Verlichting-sentrum voor Land- en Tuinbouw, Beitem-Roeselare 2789-2791  
Belin-Depoux, M. 8353  
Belisle, A. A. 11614  
Bell, A. 10424  
Bell, C. 8018  
Bell, C. H. 5744  
Bell, D. K. 3586  
Bell, F. W. 10403, 10933  
Bell, J. B. 9249  
Bell, K. O. 8627  
Bell, M. 10992  
Bell, M. F. 9212  
Bell, M. R. 2637, 9952  
Bell, R. A. 3845, 7622  
Bell, R. T. 4879, 10930  
Bellamy, C. L. 10090  
Bellard, F. 10218  
Bellard, M. 10218  
Bellardi, M. G. 3672  
Bellen, H. J. 8192  
Belli, S. 2315  
Bellinder, R. R. 2227  
Bellinger, M. D. 1767  
Bellocq, M. I. 2701  
Bellon, P. L. 928  
Belloncik, S. 7776  
Bellotti, A. C. 175, 2175, 2514-2515, 4499, 5479  
Bellows, T. S., Jr. 6177, 11335, 11450, 11798  
Belokobyl'skij, S. A. 9087  
Belokobyl'skij, S. A. 5255  
Belotti, E. 973  
Belovsky, G. E. 581, 3689, 6146  
Belshaw, R. 11960  
Belshaw, R. D. 3633  
Belton, E. M. 12099  
Beltrán-Heredia, J. 10512  
Belyaeva, E. S. 11274  
Belyeart, P. 8965  
Belzunces, L. P. 1339  
Bemudez, I. 1321  
Ben-Ari, Z. 3546  
Ben-Dov, Y. 5770, 8390, 8805, 10854  
Ben-Herzel, H. 10710  
Ben Salah, H. 9667  
Ben-Yakir, D. 3311, 3940, 8511, 10710, 10900  
Ben-Ze'ev, I. S. 1261, 6254, 7421  
Benateau, S. 9479  
Benazoun, A. 2595  
Bene, G. del 5155, 10005, 12027  
Benecke, U. 7927  
Benedeczy, I. 452  
Benedetti, R. 9610  
Benedict, C. M. 1026  
Benedict, M. Q. 1943  
Benetoli, I. 4595  
Beneventi, G. 12073  
Benfatto, D. 11900  
Benfield, M. D. 6418  
Bengtsson, G. 1072, 3956  
Bengtsson, J. 9346  
Bengtsson, M. 4480, 9537  
Bengtsson, S. 502  
Benigno, E. A. 5113  
Beninati, N. F. 7685  
Beninger, J. 4292  
Benítez, F. J. 10512  
Benjamin, P. R. 135  
Benner, J. P. 5695  
Bennet-Clark, H. C. 9320  
Bennett, D. 8542  
Bennett, F. D. 1200, 6924, 10326, 11445, 11908  
Bennett, J. K. 6372  
Bennett, R. L. 4018  
Bennett, R. N. 5270  
Bennett, R. R. 11297  
Bennett, R. S. 2326  
Bennett-Clark, H. C. 193  
Benoit, F. 10795  
Benrey, B. 7576  
Bensaadi-Merchernek, N. 8198  
Benson, M. 6393  
Benson, W. H. 8529, 10616  
Bent, E. 9839  
Bentley, M. D. 10680  
Bentley, M. M. 5866  
Bentley, W. E. 4071  
Bentley, W. J. 4686  
Bento, J. M. S. 4358  
Benton, C. M. 6668  
Benton, M. J. 8529  
Bentur, J. S. 570-571, 6500  
Bentz, J. 3867, 10978  
Bentz, J. A. 8487, 10004  
Benuzzi, M. 2212, 11447  
Benway, H. 6240  
Benyaminy, H. 10710  
Benz, G. 446, 7392, 7431, 7434, 7437-7440, 7956, 9545  
Benzer, S. 7138, 8212  
Beránková, J. 5532, 6653, 10858  
Berardinis, E. de 8762  
Berberet, R. C. 3485  
Berdegue, M. 4533  
Berdis, E. 9888  
Berdnikov, V. A. 52  
Beregovoy, V. H. 6424  
Berenbaum, M. 9570  
Berenbaum, M. R. 964, 1945, 2743, 4783, 7051, 9039, 9158, 11249  
Berendes, K. H. 8918  
Beretta, C. 8571  
Berg, C. van den 5317  
Berg, H. van den 1626, 6050, 6427  
Berg, J. H. J. van den 634  
Berg, J. van den 3445, 6473  
Berg, M. A. van den 2579, 11918  
Berg, R. van den 508  
Berg, S. 4123  
Berge, D. 5353  
Berge, J. B. 5884  
Bergenthal, D. 1720  
Berger, A. 1419  
Berger, B. 5202, 9332  
Berger, D. A. 4250  
Berger, P. D. 875  
Berger, R. von 6797  
Bergeron, J. 522  
Bergeron, Y. 8846  
Bergh, J. C. 8948  
Berghe, E. P. van den 3080  
Berghe, E. van den 3110  
Berghe, E. Vanden 10303  
Bergröf, T. 502, 9398  
Bergman, Å 1342  
Bergman, T. 11562  
Bergner, B. 4946  
Bergoin, M. 11483  
Bergonia, H. T. 11906  
Bergqvist, A. 11493  
Bergström, G. 10188  
Bergvinson, D. 8015  
Bergvinson, D. J. 8645, 8652, 9697, 9710  
Bergweiler, C. 516, 4556  
Berisford, C. W. 4733, 9981  
Berkelmann, B. 7976  
Berkett, L. P. 5357, 11848  
Berlandier, F. 3140  
Berlanga, E. 6661  
Berlinger, M. J. 5268, 7785  
Berlocher, S. H. 2965, 5986, 7148, 9857  
Bermudez G., L. A. 869  
Bernabé, M. 3319  
Bernal, J. G. 6644  
Bernal, J. S. 6177  
Bernard, A. R. 11534  
Bernard, C. B. 11701  
Bernard, E. C. 5818  
Bernard, G. 6553  
Bernard, G. D. 3781  
Bernard, J. 9127  
Bernardi, M. M. 3366  
Bernardo, E. N. 5264, 5515  
Bernasconi, P. 5868, 5978, 7347  
Bernays, E. A. 3980, 5059, 9305  
Bernini, F. 4857  
Bernklau, E. J. 7681  
Berns, R. 7429  
Bernstein, C. 7345  
Bernstein, E. 10371  
Bernstein, M. 5960  
Bernstein, S. I. 10216  
Berrie, A. M. 10840  
Berrill, M. 10615  
Berrios, M. del C. 1402, 1652  
Berry, A. 1926  
Berry, A. J. 6062  
Berry, A. K. 10427  
Berry, J. A. 9091  
Berry, J. S. 10359, 11753  
Berry, N. A. 6577  
Berry, R. E. 4673  
Berry, S. J. 1913  
Berryman, A. A. 8294  
Berta, G. 10427  
Bertaccini, A. 3672  
Bertagnoli, C. L. 8995  
Berti, J. 4522  
Bertil-Filho, E. 10984  
Bertioli, D. J. 4065, 6222  
Bertness, M. D. 8972  
Bertolaccini, I. 7366, 7650  
Bertona, A. 11571  
Bertram, G. 9186  
Bertram, S. 10615  
Bertram, S. L. 7936  
Bertrand, M. 11534  
Bertsch, W. 9010  
Beshear, R. J. 787, 1711, 5554, 8741  
Beshers, S. N. 4082  
Besson, M. T. 1047, 9231  
Bessonova, I. A. 2732  
Best, D. A. 3355-3356  
Best, L. B. 3374, 9607, 11645  
Best, P. B. 3379  
Best-Belpomme, M. 163  
Bestmann, H. J. 4941, 10673, 11193, 11330  
Bethke, J. A. 8450, 10023, 10997  
Betrán, E. 8187  
Bettarini, F. 434, 4258  
Bettencourt, R. 2189  
Bettini, G. 11953  
Bettiol, C. 10624  
Bettiol, W. 2528  
Beugnon, G. 3950, 7194  
Beuselinc, P. R. 863  
Beutelspacher B., C. R. 1851  
Beutelspacher Baigts, C. R. 7269  
Beviacqua, J. 7648  
Bevilacqua, M. 5683  
Bew, M. H. 5315  
Beyarslan, A. 11374  
Beyers, D. W. 1340, 3376, 8557  
Bezar, H. J. 1787  
Bezdicsek, D. F. 11777  
Bezerril, E. F. 4599  
Bezzerza, J. L. 10911  
Bhadra, M. 10229  
Bhadra, U. 10229  
Bhagat, K. C. 6601, 11837  
Bhagat, R. C. 1407, 2158  
Bhagat, R. M. 3510  
Bhagawan, C. N. 11002  
Bhagwat, V. R. 10772  
Bhagyalakshmi, A. 4295, 11616  
Bhalani, P. A. 11784  
Bhalerao, A. M. 76  
Bhalerao, P. D. 8835  
Bhalla, J. S. 5485, 5514  
Bhalla, O. P. 1541, 5500  
Bhalla, S. 4517  
Bhalla, S. K. 11782  
Bhandari, P. D. 833  
Bhandari, S. C. 1971, 2821  
Bharadwaj, B. S. 2521  
Bharathi, D. 8174, 8283  
Bharati, M. 5297  
Bhardwaj, S. C. 7782  
Bhargava, K. S. 10462  
Bhargava, S. K. 8401, 9454, 10389  
Bharodia, R. K. 11965  
Bhaskar, M. 3349  
Bhaskaran, G. 3855  
Bhat, N. S. 1750-1751, 11815  
Bhat, O. K. 6601  
Bhat, P. K. 700, 1623, 3603  
Bhat, P. S. 1587  
Bhatnag, S. S. 6829  
Bhatia, A. 11608  
Bhatia, P. 8486  
Bhatia, R. 4513  
Bhatnagar, A. 10726  
Bhatnagar, K. N. 6618, 9772  
Bhatnagar, P. 6738  
Bhatnagar, P. S. 11769  
Bhatnagar, R. K. 7563



- Bhatt, R. S. 1325, 10545, 11598  
 Bhattacharya, A. 5284  
 Bhattacharya, K. 2295  
 Bhattacharya, P. R. 1266, 3280  
 Bhattacharya, R. 8555  
 Bhattacharya, S. 8723, 11341  
 Bhattacharya, S. S. 9860  
 Bhattacharyya, N. 10802  
 Bhattacharyya, P. R. 3680  
 Bhattarai, M. R. 10766  
 Bhatti, N. G. 8499  
 Bhatti, S. 5020  
 Bhavadasan, M. K. 8516  
 Bhola, R. K. 1874  
 Bhole, S. R. 8749  
 Bhosale, Y. A. 5820  
 Bhuiyah, M. I. M. 3705, 5434  
 Bhuiyan, M. S. I. 7653  
 Bhumannavar, B. S. 1718, 1747  
 Bhumiratana, A. 9465  
 Bhusan, T. K. 5552  
 Bhushan, R. 8565  
 Bhuyan, K. C. 5198, 5458  
 Bhuyan, S. 9547  
 Bi, H. M. 3662  
 Bi, S. H. 8755  
 Bi, W. F. 4298  
 Bi, Z. B. 1876, 9447  
 Bianchi, D. 4258  
 Bianchi, G. 1212, 8665  
 Bianchi, S. 2985  
 Bianchi, U. 2984  
 Biannic, M. 356, 11472  
 Bias, R. 7512  
 Biase, A. de 11845  
 Biazrov, L. G. 9456  
 Biche, M. 2598  
 Bickmeyer, U. 5907  
 Biczkowski, M. 11161  
 Bidau, C. J. 2976, 3877  
 Biddinger, D. J. 7819, 9838, 10581, 11846, 11849  
 Bidleman, T. F. 500, 1184, 4322  
 Bidochka, M. J. 3268, 4145, 8440, 9499, 11507  
 Bidochkha, M. J. 4179  
 Bie, E. 3151  
 Biel, C. 5508  
 Bieman, D. N. 4084  
 Biémont, C. 2992, 8232  
 Biemont, J. C. 7057  
 Bienenmann-Ploum, M. E. 634  
 Bienz-Tadmor, B. 1050  
 Bier, E. 5982  
 Biessmann, H. 1023  
 Biever, K. D. 4175, 10433, 11812  
 Bigalke, A. 7642  
 Biggs, D. R. 4078  
 Bigler, F. 2335, 8389  
 Bignell, D. E. 5187, 5900  
 Bigot, Y. 5008, 5015  
 Bihlmayer, S. 7010  
 Bijlsma, R. 3884  
 Bikulova, L. M. 11690  
 Bilandžić, M. 1594  
 Bilapate, G. G. 11925, 11938  
 Bilde, T. 6181  
 Billeck, B. N. 6380  
 Billen, J. 3827, 8101  
 Biller, A. 10026  
 Billett, M. A. 11198  
 Billington, H. L. 11140  
 Bills, T. D. 1343  
 Bilton, D. T. 3758  
 Bilý, S. 1827, 5811, 10090  
 Bimb, K. K. 809  
 Bin, F. 65, 975  
 Bin, X. 5601  
 Binazzi, A. 1, 5667, 9129, 9990, 12011  
 Binda, M. 11703  
 Bindu Sreedharan 9547  
 Bing, L. A. 2435  
 Binger, L. C. 7132  
 Bingley, M. 245  
 Binning, L. K. 7762  
 Binns, M. R. 4561, 8710  
 Binns, T. 10044  
 Birch, A. N. E. 4512, 7827, 10065  
 Birch, M. C. 3943, 5061  
 Bircher, U. 129  
 Bird, L. J. 9559  
 Bird, T. 6567  
 Birgersson, G. 1698, 9981  
 Biró, P. 5337  
 Birzin, E. T. 5100, 8132  
 Biseau, J. C. de 3188, 5058  
 Bishnoi, O. P. 1590  
 Bishop, C. A. 9598, 10625, 10628, 10655  
 Bishop, D. H. L. 5228, 9531  
 Bishop, J. D. 11775  
 Bisht, R. S. 1543  
 Biswajit Rath 9622  
 Biswal, N. 8189  
 Biswas, V. 3462  
 Bitmiş, K. 1857  
 Bitner-Mathé, B. C. 10130  
 Bitsch, J. 8103  
 Bitsi, G. A. 4797  
 Bitzer, R. J. 7195, 11298  
 Bizzaro, D. 2984  
 Bjorksten, T. A. 10267  
 Bjostad, L. B. 6449, 7681, 9705  
 Bjugstad, N. 3168  
 Blaakmeer, A. 2923, 3417, 6582  
 Blacha-Puller, M. 8582  
 Black, B. 5279  
 Black, B. C. 2278  
 Black, R. A. 2052  
 Black, W. C., IV 5975, 11083-11084  
 Blackburn, M. B. 109, 11201  
 Blackburn, T. M. 729, 774  
 Blacker, N. C. 291  
 Blackman, R. L. 2865, 3570, 5017, 5065, 8079, 9070, 11263  
 Blackmer, J. L. 9306  
 Blackmore, S. 8447  
 Blackshaw, J. 3972  
 Blackshaw, R. P. 268, 535, 8640  
 Blackwell, A. 5920  
 Blackwell, B. A. 4326  
 Blais, C. 5932  
 Blaise, T. 1558  
 Blake, S. 5074  
 Blanc, A. 3248  
 Blanc, J. P. R. le 607, 8948  
 Blanc, S. 6262  
 Blancato, J. 1349  
 Blancato, J. N. 2319, 2813  
 Blanchard, G. 6156  
 Blanco, G. 2168  
 Blanco, H. 679  
 Blanco-Montero, C. A. 8676, 10987  
 Bland, D. 9690  
 Bland, H. C. 8546  
 Bland, S. 6604, 6628  
 Blaney, W. M. 525, 1731, 2735, 5581, 9549  
 Blank, G. 9018  
 Blank, R. 8872, 11038  
 Blank, R. H. 1568, 4600, 6691  
 Blank, S. M. 911  
 Blanke, M. 4559  
 Blankespoor, C. L. 2916, 9180, 10166  
 Blas, M. 5148  
 Blasinski, S. 2089  
 Blatt, S. E. 8319  
 Blau, C. 4951  
 Blaylock, B. L. 7580  
 Bleasdale, J. 392  
 Bledsoe, L. W. 9751  
 Bleicher, E. 1629, 4653-4654  
 Blerk, K. van 7980  
 Blewett, T. C. 3171  
 Blick, T. 1101  
 Blight, M. M. 4473  
 Bloch, G. 6323, 9561  
 Block, E. K. 8553  
 Block, M. 407, 11561  
 Block, W. 2051, 4006  
 Block, W. C. 8970  
 Blocker, H. D. 6518, 11083-11084  
 Blodgett, S. 10853  
 Blodgett, S. L. 10749  
 Bloem, K. 4366  
 Bloem, K. A. 1295  
 Bloem, S. 1295, 4366  
 Bloesch, B. 8750  
 Blom, P. E. 4973  
 Blomefield, T. 10841  
 Blommers, L. H. M. 5521  
 Bloomquist, J. R. 7527  
 Blot, Y. 1415  
 Blower, J. G. 1875  
 Blows, M. W. 1009-1010  
 Blua, M. J. 6595, 9823  
 Blum, M. S. 2921  
 Blumberg, D. 1723, 8394, 8455, 11607  
 Blume, H. P. 487  
 Blunt, J. W. 3415  
 Bo, C. 5295  
 Boag, P. T. 4292  
 Boake, D. R. B. 3973  
 Board, J. E. 8688  
 Boarde, B. V. 5430  
 Boatman, N. D. 3724  
 Boavida, C. 5164, 11904  
 Bobadilla, G., D. 9918  
 Bobrzecki, J. 10381  
 Boccaccio, G. L. 5852  
 Boccelli, R. 566  
 Bock, C. 1098  
 Bockarie, A. 1499  
 Bockheim, S. 7136  
 Böcking, D. 5932  
 Boczek, J. 904  
 Boddy, L. 10430  
 Bode, L. E. 9408  
 Bödekar, W. 7600  
 Boden, C. D. J. 10674  
 Bodhade, S. N. 6625  
 Bodnaruk, K. P. 6680  
 Bodnaryk, R. P. 4619, 7770, 8802-8803  
 Bodo, B. 806  
 Bodt, J. 477  
 Boecking, O. 8360  
 Boecklen, W. J. 4737, 11995  
 Boedeker, W. 5319  
 Boedigheimer, M. J. 7136  
 Boender, R. 10398  
 Boenke, A. 2263  
 Boenke, G. 2545  
 Boer, G. de 12091  
 Boer, H. H. 135-136, 2152  
 Boer, J. de 11609  
 Boer, P. J. den 2644  
 Boesten, J. J. T. I. 10666  
 Boët, P. 8574  
 Boethel, D. J. 1474, 4470, 6532, 7731, 8688, 9750, 10759, 10763, 12089  
 Boettner, C. W. 10491  
 Boff, M. E. C. 8549  
 Boff, M. I. C. 8663  
 Boff, P. 8663  
 Bogacheva, I. A. 1659  
 Bogatko, W. 6812  
 Bogdanov, S. 8571  
 Bogdanowicz, S. M. 9111  
 Boge, A. 7361  
 Bogenschütz, H. 2335  
 Boggs, C. L. 3923  
 Bogus, E. R. 2066  
 Boguš, M. I. 10194  
 Bohac, J. R. 5482  
 Bohart, R. M. 1816, 11115  
 Bohnert, H. J. 6523  
 Böhnke, B. 1476, 9663  
 Bohórquez, C. 10784  
 Boiça, A. L., Jr. 4412  
 Boisdon, V. 6134  
 Boiteau, G. 3873, 4486, 6553  
 Boitin, C. 5101  
 Boito, G. 7648  
 Boivin, G. 607, 4110, 4411, 8721, 9132, 10257, 10789  
 Bojarski, S. 1273  
 Bokonon-Ganta, A. 5164  
 Bokonon-Ganta, A. H. 10884  
 Boland, W. 7053  
 Boldt, P. E. 6856  
 Boletim da Sociedade Portuguesa de Entomologia 3720  
 Bolger, T. 10268  
 Bolin, P. C. 9579  
 Boll, M. 6364  
 Bolland, H. R. 61, 4497  
 Bollen, R. 9946  
 Bollenbacher, W. E. 116, 139, 1909, 5887  
 Boller, E. 2335, 4576, 7080  
 Boller, E. F. 5374  
 Bollman, K. 6619  
 Bollum, F. J. 1255  
 Bologna, M. A. 9364  
 Bol'shakova, V. N. 6670  
 Bolstad, P. 6108  
 Bolton, B. 5772, 11960  
 Boluda, R. 2365  
 Boman, B. J. 2100  
 Bomar, C. R. 5043, 5446, 5448  
 Bomberg, J. 8344  
 Bombosch, S. 3660, 12016  
 Bonaccorsi, S. 8213  
 Bonato, O. 4497, 6565, 8714, 9788  
 Bonavia, M. 9863  
 Bond, P. M. 272  
 Bond, W. J. 12055  
 Bonetto, G. M. 10679  
 Boneva, I. M. 2735  
 Bonfils, J. 692, 10308  
 Bonhomme, J. 7640  
 Bonin, A. M. 11641  
 Bonin, J. 10628  
 Bonini, N. M. 8212  
 Bonivardo, S. L. 3631, 3650  
 Bonnard, O. 766  
 Bonner, J. T. 2867  
 Bonnevie, N. L. 8590-8591, 9635  
 Bonning, B. C. 4169, 9208, 11217  
 Bonnot, G. 5862, 8113, 9215  
 Bonora, M. 1545  
 Bonorino, C. B. C. 3895  
 Bonvicini Pagliai, A. M. 11259  
 Boo, K. S. 7201, 7533, 7535, 11153  
 Booij, C. J. H. 7771  
 Booij, K. 5317  
 Booij, R. 2354  
 Booker, R. 106  
 Boon, J. P. 10610  
 Booren, A. M. 6363  
 Boot, W. J. 304, 4089, 7352, 8388  
 Booth, R. G. 2856, 3754  
 Boots, M. 4138  
 Bopp, D. 4997  
 Boppré, M. 1091, 1889, 4937, 10026  
 Bor, Y. J. 10471  
 Bora, D. K. 6499, 10741  
 Bora, D. S. 10399  
 Bora, R. S. 8326  
 Boraczek, J. A. 1379  
 Borad, P. K. 5408, 11889  
 Borade, B. V. 5429  
 Borah, B. K. 11952  
 Borah, R. K. 4441, 11789  
 Bordás, B. 10537  
 Bordat, D. 2129, 2138, 2190, 4000  
 Borden, J. H. 212, 769, 1702, 1890, 2706, 6634, 9981-9982, 9987  
 Bordereau, C. 766  
 Bordoloi, D. N. 3680  
 Bordón, C. 7301  
 Borg, S. J. ter 8035  
 Borgel, H. 1672  
 Borges, M. 975, 1393, 1398-1399, 3991, 7502  
 Boriani, M. 3232  
 Borisova, S. M. 3163  
 Borkowski, A. 10306  
 Borle, M. N. 6625  
 Börner, H. 6931  
 Borole, D. H. 1613



- Borovaya, V. P. 6562  
 Borrathybay, E. 5093  
 Borrell, A. 7617  
 Borrero Fonseca, F. 3131  
 Borrull, F. 7599  
 Borsa, P. 9939  
 Borse, S. S. 1335  
 Borst, E. M. 3236  
 Borštnik, B. 2956  
 Borthakur, M. C. 10620  
 Bortoli, S. A. de 4412  
 Boscán de Martínez, N. 1564, 8796  
 Bosch, D. 2233, 5234, 6650, 9946  
 Bosch, H. 8964  
 Bosch, J. 5148  
 Boscheri, S. 7810  
 Boscia, D. 9873  
 Bosco, D. 658, 10826  
 Bose, G. 2035  
 Boselli, M. 1617  
 Bosetti, A. 4258  
 Bosio, C. F. 5975  
 Bosio, G. 11816  
 Bosma, C. 3379  
 Bosmans, R. 6194  
 Bosque, C. 5597  
 Bosque-Pérez, N. 8618  
 Bosque-Pérez, N. A. 5423, 6900  
 Bosquet, G. 1047, 9231  
 Bossan, D. 10660  
 Bossé, M. 1268  
 Bossi, R. 4336  
 Bostanian, N. J. 8710  
 Botar, A. 11850  
 Botas, J. 5001  
 Botelho, P. S. M. 1610, 8814  
 Botello, A. V. 4296  
 Botha, F. C. 3431  
 Botha, J. H. 3136, 4548, 5522-5523, 11841  
 Botha, M. C. 3136  
 Bothakur, M. C. 5591  
 Botrè, C. 10507  
 Botrè, F. 10507  
 Botsman, L. P. 8603  
 Botalico, A. 2200  
 Böttcher, H. 10040-10041  
 Bottner, G. H. 10491  
 Botto, E. N. 6016  
 Botton, M. 4216  
 Bottrell, D. G. 2830, 4476, 5424, 6484-6485, 9755  
 Boubals, D. 2573, 9864, 9877  
 Bouček, Z. 1826, 6960  
 Bouchon, D. 75  
 Boucias, D. 9480  
 Boucias, D. G. 369, 375-376, 4159, 7447, 10437  
 Boudon-Padieu, E. 10868  
 Bough, J. 8485  
 Bouguerra, M. L. 7618, 10634  
 Bouhin, H. 11271  
 Bouhot-Delduc, L. 7940  
 Bouix, G. 2129, 2190  
 Bouk, D. 3777  
 Boukadida, R. 4544  
 Boulétreau, M. 3211-3212, 11439  
 Boulter, D. 1288, 2232, 2621, 5269, 9945  
 Bourahla, M. 2598  
 Bourchier, R. S. 7363  
 Bourdonnaye, D. de la 1209  
 Bourdonné, J. C. 8061  
 Bourg, E. le 8115  
 Bourgeois, D. J. 7609  
 Bourgeois, G. 4411  
 Bourgeois, T. le 2221  
 Bourgoin, T. 3764  
 Bourke, A. F. G. 1979, 3048, 7174, 10234  
 Bourland, F. M. 709, 2311, 2633  
 Bourlot, G. 11882  
 Bourmazos, S. N. 3814, 4932  
 Bourmer, T. C. 6457  
 Bourmier, A. 8094  
 Bourmier, J. P. 8646  
 Bourmouille, R. 7724, 8683  
 Bourtzis, K. 4920, 6224  
 Bouse, L. F. 6135  
 Bousquet, Y. 1799  
 Boussy, I. 5015  
 Boutet, J. P. 2101  
 Boutin, C. 7605, 11558  
 Bouton, C. E. 11603  
 Bouton, J. H. 863  
 Bouwman, H. 11610  
 Bouwmeester, T. 2651  
 Bouzerna, N. 9361  
 Bové, J. M. 3004  
 Bovigny, P. Y. 12031  
 Bøwadt, S. 471  
 Bowdrey, J. 7273, 11979  
 Bowdrey, J. P. 2848, 3123-3124  
 Bowen, J. M. 11653  
 Bowen, W. 10424  
 Bower, C. C. 2556, 6276  
 Bower, K. M. 5357  
 Bower, K. N. 11848  
 Bowerman, W. W. 3355-3356  
 Bowers, M. D. 1090, 6857, 11022, 11030, 11289  
 Bowers, W. S. 3415, 6399, 10671  
 Bowers, W. W. 1890  
 Bowles, J. M. 2723  
 Bowling, R. 1427, 8627  
 Bowman, D. 2631  
 Bowman, G. J. 3920  
 Boyce, D. C. 8289  
 Boyce, T. M. 8224, 11282  
 Boyd, A. H. 6471  
 Boyd, C. 5993  
 Boyd, C. R. 2081, 4232  
 Boyd, H. P. 9984  
 Boyd, J. B. 9234  
 Boyd, M. L. 4617  
 Boyd, R. S. 792, 4767  
 Boyer, S. N. 10231  
 Boyle, L. 2166  
 Boyles, T. 2876  
 Božinović, I. 1425  
 Bozkurt, E. 11710  
 Bozsik, A. 9443, 10593  
 Bozzano, G. 10811  
 Braack, L. E. O. 8307  
 Braaten, A. C. 5866  
 Braby, M. F. 9371  
 Brackenbury, J. 12094  
 Brădescu, V. 2037  
 Bradford, E. 8303  
 Bradford, M. J. 11342  
 Bradley, D. 10433  
 Bradley, J. D. 2080  
 Bradley, J. R. 7545  
 Bradley, S. J. 5377, 7820, 8759, 11554  
 Braekman, J. C. 5886  
 Braga, G. U. L. 4178  
 Braga, S. R. 6741  
 Bragadin, M. 4235  
 Bragança, M. A. L. 3637  
 Bragg, D. E. 5412, 5725  
 Bragg, P. E. 2847  
 Brailovsky, H. 1847, 3659, 9065, 11010  
 Braimah, H. 4407  
 Brain, P. 6917, 8459  
 Brakefield, P. M. 238, 4100, 7116, 9121-9122, 9259, 9418  
 Braman, S. K. 787, 1711, 2484, 4453  
 Bramel-Cox, P. J. 7692  
 Branch, W. D. 9753  
 Brancher, N. 1188, 4216  
 Brand, A. H. 4999  
 Brand, J. M. 8135  
 Brandão, C. R. F. 6055  
 Brandenburg, R. L. 5394  
 Brandl, F. 6838  
 Brandl, R. 4127, 10986  
 Brandstetter, M. 10971  
 Brandt, H. J. 6642  
 Brandt, I. 4310  
 Brandt, M. 5001  
 Brandt, R. N. 4390  
 Braniste, N. 9846  
 Branquart, É. 11988  
 Brar, H. 4926  
 Brar, J. S. 8700, 11652  
 Brar, K. S. 5485, 5514, 8379, 9795, 11776  
 Bras, F. 11265, 11486  
 Brasier, C. 8883  
 Brasier, C. M. 6765  
 Bratti, A. 7309  
 Brattsten, L. B. 4250  
 Bratus, A. 6445, 6450  
 Brauman, A. 1235  
 Braun, A. 4833, 7142  
 Braun, A. R. 2512, 2515, 5478-5479  
 Braun, R. P. 4964, 11213  
 Braun, S. 3546, 4738, 5827  
 Braun, U. 3930, 5128  
 Braunagel, S. C. 11481  
 Bräunig, P. 281, 8152  
 Bravo, R. 10410  
 Bravo Calderón, M. 5573  
 Braxton, S. M. 6273  
 Braza, R. D. 2658, 2681-2682, 6766  
 Brazee, R. D. 6312  
 Brazil, Instituto Agrônômico do Paraná 663  
 Brazzle, J. R. 4659  
 Breach, R. 6392  
 Brecken-Folse, J. A. 1344  
 Breda, J. M. van 3955  
 Breden, F. J. 11275  
 Breen, A. L. 349  
 Breen, J. P. 5267  
 Breene, R. G. 693, 4091  
 Breuwer, J. A. J. 3205  
 Brehélin, M. 3837  
 Breidbach, O. 4887  
 Bremer, S. 7025  
 Brempong-Yeboah, C. Y. 5507  
 Brenner, F. 1980  
 Brenes, S. 8780  
 Brenner, L. 3542  
 Bresciani, A. F. 8733  
 Bresciani, J. 7767, 10435  
 Bresgen, N. 10711  
 Bressel, H. U. 11216  
 Breth, D. L. 6648  
 Brewer, G. J. 4621, 8804  
 Brewer, M. J. 4223, 4260, 11582  
 Brewer, S. R. 5162  
 Brewster, J. L. 883  
 Breznak, J. A. 4924  
 Brézot, P. 7059  
 Brice, D. 11865  
 Briceño, A. J. 8862  
 Briceño G., R. A. 619  
 Briddon, R. W. 4209  
 Bride, J. M. 8201  
 Bride, J.-M. 11596  
 Bridge, H. 1577  
 Bridges, J. R. 8296  
 Brier, H. B. 4629  
 Brierley, R. M. 4647  
 Briesse, D. T. 6856  
 Brigato, R. A. 1870  
 Briggs, C. J. 2114, 3012, 9299  
 Briggs, G. G. 877  
 Brigham, D. L. 6449  
 Bright, D. E. 252, 818, 5644  
 Bright, K. L. 3980, 5059, 9305  
 Brindley, W. A. 6334  
 Bringmann, G. 2249  
 Brink, A. 5411  
 Brink, T. 667, 1574, 8784  
 Brinkman, U. A. T. 7599, 10505  
 Brinn, P. J. 337  
 Briscoe, B. R. 8406  
 Briscoe, D. A. 1073, 1953  
 Briton, J. 1073  
 Britt, A. G. 2384  
 Britten, H. B. 1059, 10235  
 Britten, H. G. 7249  
 Brittinger, W. 5927  
 Broadbent, A. B. 12037  
 Broadley, R. H. 2584, 5777  
 Broadway, R. M. 6576  
 Brock, H. W. 8183, 8210  
 Brock, T. C. M. 2350, 7614  
 Brodbeck, B. V. 10003  
 Brodeur, J. 3949, 6182, 9423  
 Brødsgaard, H. F. 236, 1714, 6322  
 Broecker, B. 7512  
 Broeders, F. 5886  
 Broekaert, W. F. 8117  
 Broekhuizen, S. 2644  
 Brogan, S. 5901  
 Broman, B. 606  
 Bromilow, R. H. 7322  
 Bromley-Challenor, K. A. C. 5193  
 Brommonschenkel, S. 3525  
 Brook, A. 2958  
 Brooke-Taylor, S. 2775  
 Brookes, C. P. 5652  
 Brookes, M. I. 1997, 3135  
 Brookfield, J. F. 2992  
 Brooks, E. M. 4199, 10411  
 Brooks, H. L. 8627  
 Brooks, M. W. 7308  
 Brooks, R. J. 9598, 10625  
 Brooks, R. T. 6755  
 Brooks, S. J. 5804  
 Broomfield, A. H. 11423  
 Bros, W. E. 8913  
 Broshears, R. E. 2356  
 Brothers, D. J. 9107  
 Brough, C. 2232, 5269, 8127  
 Broughton, R. E. 9241  
 Broumas, T. 6710  
 Brousseau, R. 1268, 2196  
 Brouwer, D. H. 4270, 7593  
 Brouwer, E. J. 7593  
 Brouwer, W. W. M. 508, 10666  
 Browde, J. A. 6539, 10764-10765  
 Brower, A. V. Z. 2959, 4864, 5988  
 Brower, J. H. 2783, 6883  
 Brower, L. P. 146  
 Brown, B. V. 3191, 4881, 9078  
 Brown, C. 2261  
 Brown, D. G. 4770, 6843  
 Brown, D. J. 9370  
 Brown, G. C. 6247, 9502, 9756  
 Brown, G. P. 9598  
 Brown, H. E. 6720  
 Brown, J. 8339  
 Brown, J. J. 318, 3230, 10549  
 Brown, J. K. 3867, 4209, 4915, 9126, 9267, 11707  
 Brown, J. K. M. 10700  
 Brown, J. M. 5984  
 Brown, K. L. 7385  
 Brown, K. S., Jr. 1852, 7102  
 Brown, K. W. 365  
 Brown, L. 11255  
 Brown, M. J. 11618  
 Brown, M. W. 651, 4555, 9835  
 Brown, N. E. 3887  
 Brown, P. A. 3570  
 Brown, P. M. 2299  
 Brown, R. N. 2320  
 Brown, R. T. 2061  
 Brown, S. A. 10029  
 Brown, S. J. 9245  
 Brown, S. K. 4551, 4553  
 Brown, S. L. 2780, 3586  
 Brown, S. M. 9713  
 Brown, V. K. 3029, 4683, 11020  
 Brown, W. D. 11912  
 Brown, W. V. 8871  
 Brownbridge, M. 2185, 5658  
 Browne, B. 9038  
 Browne, D. J. 927, 1855  
 Browning, H. W. 7847  
 Brownwell, R. L., Jr. 3381  
 Broza, M. 4527  
 Bruce, G. 11674  
 Bruckner, P. L. 6432  
 Brudnak, M. 2969  
 Brüggemann, R. 4314  
 Bruhn, C. 10478  
 Bruhn, J. A. 8489  
 Bruin, J. 8452, 10482  
 Bruins, E. B. A. W. 4118  
 Brun, J. 2335  
 Brun, L. A. 2745



- Brun, L. O. 258, 397, 5293, 8337, 9583  
 Brun, P. 1561, 4592  
 Brune, A. 4924  
 Brunel, E. 12087  
 Brunelli, A. 1305, 3313  
 Bruner, F. 1171  
 Brunet, F. 2851, 5008  
 Brunetti, R. 9863, 12030  
 Brunner, J. E. 2746  
 Brunner, J. F. 1538, 3536, 6629  
 Brunsfeld, S. J. 5650  
 Brunsford, G. J. 6380  
 Brunström, B. 4310  
 Brushwein, J. R. 7012, 7161  
 Bruss, D. R. 3414  
 Brussaard, L. 6086, 9287  
 Brussaard, P. F. 1059, 12035  
 Brust, G. E. 3502, 9822  
 Bruyn, L. de 2025, 7997  
 Bruzzone, N. 11623  
 Bryan, M. D. 10001  
 Bryant, S. E. 5330  
 Bryant, V. M. 1096  
 Brygoo, Y. 4161, 11504  
 Bryne, D. N. 532  
 Bryne, M. 10404  
 Brzeski, M. 1501  
 BSES Bulletin 2605  
 Buainain-Alves, C. M. 1463  
 Bubb, J. M. 4344  
 Bubli, O. A. 2994  
 Bubli, O. A. 2997  
 Bubniewicz, P. 2400  
 Buchanan, G. A. 5556  
 Bucheli, E. 6848  
 Buchelos, C. T. 8357, 9015  
 Bucheton, A. 2944  
 Buchholz, U. 4577  
 Buchholz, U. von 5540  
 Büchi, R. 1319, 3701  
 Büchlin, I. K. 4357  
 Buchmann, S. L. 6127  
 Buchner, E. 7077  
 Buck, M. 541  
 Buckley, P. M. 5415, 9711  
 Bückmann, D. 3850  
 Buckner, J. S. 5936, 7101  
 Buda, V. 2878  
 Budau, C. 4197  
 Budde, B. J. 2350  
 Budde, W. L. 11665  
 Budenberg, W. J. 662  
 Budia, F. 4248  
 Budiyo, E. 6529  
 Budnik, V. 5979  
 Buendía, J. 10859  
 Bueno, O. C. 5130  
 Bueno, V. H. P. 4506  
 Buerger, T. T. 10596  
 Buès, R. 4252, 6084  
 Bues, R. 9327  
 Bugert, J. J. 5216  
 Bugg, R. L. 643  
 Bugrov, A. G. 1185  
 Buhl, H. J. 1381  
 Bui, T. 1023  
 Bukhvalova, M. A. 5123  
 Bukulova, L. M. 270  
 Bukzeyeva, O. N. 9828  
 Bulach, D. 6233  
 Bulet, P. 1916, 8117, 8169  
 Bull, C. M. 11352  
 Bull, R. M. 7877  
 Bulla, L. A., Jr. 11485  
 Bullard, B. 1405  
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 Bulletin OILB/SROP 3722  
 Bulloch, A. G. M. 355  
 Bullock, J. M. 6859  
 Bullock, R. C. 2100, 4385, 11896  
 Bult, R. 112  
 Bulumulla, H. N. K. 6823  
 Bumroongsri, V. 6409  
 Bunce, J. A. 4640  
 Bünemann, H. 11254  
 Bünger, J. 7642  
 Buño, I. 3092  
 Buntin, G. D. 2717, 4398, 4618, 8651, 9690, 11922  
 Bunvunno, S. 6383  
 Buonaccorsi, J. 4496  
 Buonaccorsi, J. P. 7211  
 Burakowski, B. 5097  
 Burand, J. P. 11524  
 Burbach, M. E. 2377  
 Burban, C. 11796  
 Burbidge, T. 8870  
 Burbridge, B. 783  
 Burckhardt, D. 5654, 10295  
 Burd, J. D. 4401, 6183, 6428, 6443, 11725  
 Burdajewicz, S. 1542  
 Burden, B. J. 6528  
 Burden, D. J. 1220  
 Burel, F. 5703  
 Burgaz, S. 8562  
 Burger, B. V. 9539  
 Burger, J. C. 6858  
 Burgermeister, W. 11284  
 Burgess, E. P. J. 279  
 Burgess, L. W. 5701  
 Burgess, R. 2248  
 Burggraaf, S. 11663  
 Burghause, F. 2113  
 Burgo, G. 2111, 2480, 5419, 9694  
 Burhenne, J. 2334, 4072, 4242  
 Burke, R. A. 8428  
 Burke, R. L. 9142  
 Burke, W. D. 1043, 1936  
 Burkhardt, G. 6827  
 Burlando, B. 10058  
 Burlando, T. M. 791  
 Burleigh, J. R. 590  
 Burma, S. 7128  
 Burn, J. T. 11350  
 Burnell, A. M. 9490  
 Burnet, B. 1960, 1993, 5996  
 Burnett, P. A. 8047  
 Burnham, C. 10491  
 Burnip, G. M. 3536  
 Burns, E. 9659  
 Burns, J. C. 5394  
 Burns, J. M. 4869  
 Burns, T. 365  
 Buron, I. de 2884  
 Burpee, D. M. 8258  
 Burris, E. 2625, 4470, 6736, 9584  
 Burrows, D. W. 8981  
 Burrows, M. 983, 5912  
 Burrows, P. M. 4052  
 Burse, V. W. 10571  
 Bursian, S. J. 3355-3356  
 Burstein, M. 5567-5568  
 Burt, P. J. A. 9047  
 Burton, G. 10679  
 Busch, T. 5103  
 Büschges, A. 111, 5913, 10183  
 Buschinger, A. 3880, 5132, 5143, 5630, 9411, 11317  
 Buschman, L. L. 4037  
 Buse, A. 8286-8287  
 Buser, H. 3141  
 Buser, H. R. 3328  
 Bush, P. B. 9629  
 Bushan Lal 11682  
 Bushkovskaya, L. M. 6821  
 Bushway, R. J. 9618  
 Busoli, A. C. 1627, 1630, 4655-4656, 5613-5614, 8831, 9950  
 Bustillo, P., A. E. 7391  
 Bustos, S. 11623  
 Buta, J. G. 8487  
 Butani, D. K. 8041  
 Butaye, L. 9614  
 Butcher, G. W. 1405  
 Butin, H. 4717  
 Butko, P. 2160  
 Butler, D. G. 562  
 Butler, D. R. 4435, 7691  
 Butler, M. A. 8156  
 Butler, R. C. 351  
 Butlin, R. K. 1997, 3092, 6012, 8257  
 Butt, T. B. 2498  
 Butt, T. M. 3291, 4065, 4181, 4184, 6222, 10445  
 Butt, U. 11643  
 Butte, W. 7606  
 Butterfly Conservation News 3013  
 Butterworth, E. W. 776  
 Buttery, R. G. 9703  
 Butts, D. P. 6198  
 Butts, R. A. 6434, 9680  
 Butz, P. 10358, 11539  
 Butz, S. 10663  
 Buurma, J. S. 9794  
 Buxton, J. 4750  
 Buyanovsky, G. A. 498  
 Buysen, A. C. 7429  
 Buzareingues, F. B. de 11303  
 Bye, R. 6400  
 Byers, J. A. 1698, 8924  
 Byers, J. R. 11923  
 Byers, M. E. 4519  
 Byers, R. A. 3482, 6454, 10337  
 Byk, T. 8153  
 Bylund, H. 4691  
 Bynum, E. D., Jr. 6441, 7547  
 Bynum, H. G. 6822  
 Byrareddy, M. S. 3258  
 Byrdy, S. 1362  
 Byrne, D. N. 4538, 4542, 9306, 9819  
 Byrne, F. J. 4217, 5616, 7046, 10833, 11587  
 Byrne, M. M. 3046, 5137  
 Byrne, P. F. 2432  
 Byun, B. K. 7288  
 C. Vidal Neto, F. das 4653  
 Cabal, J. 11717  
 Caballero, P. 315, 330, 2173, 4146  
 Caballero, P. C. 7443  
 Cabana, J. 9406  
 Cabanillas, H. E. 2436, 9702  
 Cabauatan, P. Q. 2456-2457  
 Cabitza, F. 1511, 2532, 10878  
 Cabot, E. L. 1036  
 Cabral de Sousa Dias, J. M. 5213  
 Cabras, P. 1511, 5578  
 Cabrera, H. M. 3435  
 Cabrera, M. 1622  
 Cabrera, R. 6824, 8611  
 Cabrera, V. M. 5014  
 Cabrero, J. 2983, 5959, 7134, 8159, 8186, 8233, 9258  
 Cabunagan, R. C. 2456  
 Cacciola, S. O. 8745  
 Cacciagli, P. 10826  
 Cacoynanni, Z. 9260  
 Cade, W. H. 3036  
 Cadogan, B. L. 756, 7960  
 Cadou, J. 10068  
 Cady, A. 5154  
 Caetano, F. H. 2881-2883, 3783, 3876, 5839  
 Caggiati, P. 639, 641  
 Cahill, M. 4217, 5616, 7046, 9559, 11587  
 Cai, H. 1005  
 Cai, J. P. 8137  
 Cai, P. 11082  
 Cai, R. X. 7852  
 Cai, W. Z. 8106  
 Cai, X. Y. 11476  
 Caillaud, C. M. 4403, 7654, 8636, 10692, 11719  
 Cailliez, B. 6430  
 Cairns, T. 2292-2294  
 Calabi, P. 3183, 5125  
 Calamai, L. 4185  
 Calamari, D. 2700, 5347  
 Calambokidis, J. 2291  
 Calatayud, F. 10376  
 Calatayud, P. A. 609, 4498  
 Calco, V. 10218  
 Caldas, A. 1985, 7902  
 Calderone, N. W. 8399  
 Caldwell, M. 5154  
 Caldwell, P. M. 2216, 3294  
 Caldwell, R. L. 825  
 Caldwell, S. 8328  
 Cali, A. 5209  
 California Agriculture 8488  
 Calilung, V. J. 11088  
 Calis, J. N. M. 304, 2335, 4089, 7352, 8388  
 Calistru, G. 2572  
 Calitz, F. J. 5522-5523, 11852  
 Calkins, C. O. 673, 1780, 6115  
 Callahan, F. E. 8145  
 Callahan, P. S. 3982  
 Callaini, G. 11484  
 Callegari-Jacques, S. M. 3895  
 Calmon, J. P. 1704  
 Caloba, J. 8794  
 Caltagirone, L. 8776  
 Calull, M. 7599  
 Calumpang, S. M. F. 12043  
 Calus, A. 2789-2791  
 Calvert, L. 175  
 Calvert, P. R. 6109  
 Calvert, W. H. 5679  
 Calvin, D. D. 6454, 10713, 11731  
 Calvitti, M. 5174  
 Calvo, R. 10022  
 Cam, H. 901  
 Camacho, J. P. M. 1901, 2983, 5959, 7134, 8159, 8186, 8233, 9134, 9258, 11238  
 Camacho, R. F. 9745  
 Camann, D. E. 255  
 Camann, M. A. 6198  
 Cámara, M. A. 4291, 8947, 10859  
 Camargo, A. J. A. 9672  
 Camargo, E. P. 7390  
 Camazano, M. Sánchez- 4337  
 Cambefort, Y. 9101  
 Cambron, S. 9683  
 Camele, I. 10824  
 Camer-Pesci, P. 670  
 Cameron, E. A. 1150, 10955  
 Cameron, P. J. 531, 6605  
 Cameron, R. A. D. 1134  
 Cameron, R. S. 6782  
 Camhi, J. 93  
 Camhi, J. M. 9321  
 Camillo, E. 9264  
 Camino Lavin, M. 811  
 Cammaerts, M. C. 287, 7064  
 Cammaerts, R. 287, 7064  
 Cammell, M. E. 2015, 4474  
 Campadelli, G. 11401  
 Campagna, C. 11571  
 Campan, M. 5062, 11167  
 Campbell, B. C. 160, 8085, 10429  
 Campbell, C. A. M. 4645, 6834  
 Campbell, C. D. 8331, 9579  
 Campbell, G. 8191  
 Campbell, G. E. 6193  
 Campbell, J. B. 1441  
 Campbell, J. F. 4194, 4755  
 Campbell, J. M. 922, 1798  
 Campbell, M. 10600  
 Campbell, M. G. 4965  
 Campbell, R. 11991  
 Campbell, R. B. 8210  
 Campbell, R. K. 6443  
 Campbell, R. L. 5450  
 Campbell, T. A. 7723  
 Campiolo, S. 8363, 11412, 11429  
 Campo, J. L. 6116, 6122  
 Campo Ruiz, R. A. 4594  
 Campos, A. R. 3971  
 Campos, F. 7527, 9999  
 Campos, M. 1602, 2078, 2596-2597, 4626, 4628, 7310, 8463  
 Campos, T. B. de 2535  
 Camps, F. 3831, 3833, 9204  
 Canada, Alberta Special Crops and Horticultural Research Center 9022  
 Canada, Biological Survey of Canada 3011  
 Canada, D. 2953  
 Canada, Environmental Protection Service 8030  
 Canada, Ministère des Forêts du Québec 5760



Canada, Prairie Farm Rehabilitation Administration Shelter-belt Centre 9023  
Canal, I. 3043  
Canard, M. 9450, 9821  
Canato, C. M. 1169  
Canaway, P. M. 10988-10989  
Candasamy Rajendran 10518  
Candura, S. M. 469  
Candy, D. J. 4951  
Candy, S. G. 6162  
Canetto, P. 639  
Cangussu, J. A. 5871  
Canhao, J. 8691  
Canhoto, A. 10595  
Canicio Loch, L. 6227  
Cano, J. M. 6997  
Cano-Santana, Z. 4769, 10981  
Cano V., E. 7799  
Cant, R. 10801  
Cantelo, W. W. 11795  
Cantera, R. 1894  
Canter, K. J. 5285  
Cantoni, C. 2767  
Cao, C. 276  
Cao, C. Y. 2831  
Cao, M. X. 9168  
Cao, Q. 11455  
Cao, R. Q. 9955  
Cao, S. Y. 9720  
Cao, Y. X. 10924  
Cao, Y. Z. 10689  
Caoile, A. G. 11246  
Capalbo, S. M. 416  
Capasso, R. 684  
Capatos, D. 11883  
Capek, M. 11108  
Capell, S. S. 4313, 8543  
Capella, A. N. 3817  
Capilla, M. A. 6685  
Capinera, J. L. 4105, 4454, 6616, 6924, 9824  
Capocasale, R. M. 8321  
Capolupo, P. 11845  
Caporale, C. 11195  
Capovilla, M. 5001  
Cappelozza, L. 9610  
Cappelozza, S. 9610  
Cappiello, A. 1171  
Cappuccino, N. 737, 4692, 5636  
Capri, E. 566  
Caprio, M. A. 1494, 9577  
Capuzzi, L. 434  
Capy, P. 1002, 1006, 1057, 1922, 2851, 5008, 7036, 7133  
Caquet, T. 2342  
Caraco, T. 8272  
Caranfa, M. J. 349  
Carante, J. P. 3138  
Carareto, C. M. A. 3894  
Carballo V., M. 8780-8781  
Cárcamo, H. A. 1214, 8375  
Cardé, R. T. 1107, 7211, 9536, 10489  
Cardinali, D. 3513  
Cardona, C. 2490, 4979, 5461  
Cardwell, C. 3427  
Carey, D. B. 220, 3922  
Carey, J. H. 9598, 10625  
Carey, J. R. 2210, 2540, 3025, 4009, 4031, 5067, 7158, 11166  
Carey, M. 7427, 10446  
Cargain, M. J. 11353  
Carhuamaca, J. 3506  
Cariou, M. L. 1932  
Carisey, N. 8904  
Carl, K. P. 11540  
Carlson, F. 9813  
Carlberg, U. 6140  
Carle, P. 3004  
Carli, C. 752  
Carlin, N. F. 3183, 6062  
Carlini, E. J. 6635, 7819  
Carlo, G. del 12073  
Carlow, T. A. 9117  
Carlson, C. A. 1340  
Carlson, D. G. 6674  
Carlson, J. A. 2258  
Carlson, R. B. 2753  
Carlson, S. D. 117  
Carlton, C. E. 937, 1758  
Carmen Negrette, J. del 3197  
Carmen Sánchez, M. del 5463, 10725  
Carmi, J. 11672  
Carmona, D. 4484, 7750, 10782  
Carmona, M. M. 6542  
Carneiro, J. da S. 4599  
Carneiro, R. M. D. G. 4202-4203  
Carnaro, A. 5156  
Carnogursky, J. 4021  
Carnovale, E. 2776  
Caroppo, S. 5674  
Carp-Weiss, L. 10409  
Carpenter, A. 6266  
Carpenter, J. E. 2256, 4418, 5150, 9420  
Carpenter, J. M. 2880, 9107  
Carpenter, P. D. 4334, 10633  
Carpenter, S. R. 3353  
Carpenter, T. G. 6136  
Carpio, F. 416  
Carr, C. J. 10432  
Carr, W. C., Jr. 8536  
Carracedo, C. J. 1621-1622  
Carrai, C. 1717  
Carrara, A. 2745  
Carraro, L. 10868  
Carreck, N. L. 7466  
Carrejo G., N. S. 2514  
Carrero, I. 5339  
Carrière, T. 6008  
Carrière, Y. 647, 10147  
Carriero, A. 3400  
Carrillo, J. R. 3222  
Carrillo, T. D. 3222  
Carrillo-Farga, J. 8433  
Carrillo L., R. 3937  
Carrillo-Sanchez, J. L. 10466  
Carrió, R. 1951  
Carroll, A. L. 4739, 9311  
Carroll, S. 1011, 9103  
Carroll, S. B. 5950, 8099  
Carroll, S. C. 4665  
Carroll, S. P. 5993  
Carrow, R. N. 4453  
Carra, A. M. 8574  
Carruthers, R. I. 3133, 10447  
Carson, W. G. 7789, 10481  
Carson Cohen, A. 2911  
Cartea, M. E. 9707  
Carter, D. B. 2054  
Carter, J. B. 2171  
Carter, J. L. 4224-4225, 11986  
Carter, M. 10010  
Carter, M. R. 1656, 4225  
Carter, N. 3227, 4408, 5387, 9335  
Carter, P. E. 7733  
Carton, Y. 7330, 8505  
Cartwright, B. 2401, 8727, 9827  
Carty, T. M. 6241  
Caruso, C. 11195  
Carvalho, A. B. de 8180  
Carvalho, A. O. R. de 3434  
Carvalho, C. F. 1069, 5421, 9450  
Carvalho, F. L. C. 8278  
Carvalho, F. P. 3389  
Carvalho, G. A. 1710, 4324, 7570  
Carvalho, G. R. 7672  
Carvalho, J. C. M. 1848, 11100  
Carvalho, S. L. 7897  
Carver, M. 8637  
Casado, D. 6429, 6446-6448  
Casal, C. V. 4988  
Casalderrey, A. Fernández-1369, 4287  
Casanova Ostos, R. A. 3297  
Casari-Chen, S. A. 4848  
Casarini, B. 6550  
Casas, J. 7209  
Casas, J. von 271  
Case, T. J. 1667  
Case, V. M. 10382  
Caseley, J. 3723  
Casey, M. L. 4524, 7996  
Casey, P. 10570  
Casida, J. E. 3363, 4259, 10343, 10345  
Casini, S. 2288  
Cassada, D. A. 2377  
Cassier, P. 3284, 4734, 4885-4886, 6024  
Cassino, P. C. R. 4384, 4586  
Cassis, G. 11105  
Cassola, F. 1841  
Castagnoli, M. 752, 9439  
Castañé, C. 321, 6817, 9664  
Castañeda, H. 11097  
Castaneda Samayoa, O. R. 7184  
Casteels, H. 8730  
Castilla, N. P. 3457  
Castillejo, J. 4871, 5204, 11102  
Castillo, A. 2124  
Castillo, E. 7868  
Castillo, F. 416  
Castillo, L. 2342  
Castillo, M. 5381  
Castillo, M. A. 9871  
Castillo, R. 9871  
Castiñeiras, A. 4088, 4642  
Castle, S. J. 7760  
Castrejon Ayala, F. 811  
Castro, G. 683  
Castro, A. M. 547  
Castro, H. H. 3385  
Castro, L. 3056  
Castro, N. H. C. de 798  
Castro Costa, M. de 7729  
Castro della Lucia, T. M. 7729  
Catalán, J. Gómez- 8564  
Cate, J. R. 68  
Cates, R. G. 4746, 9997  
Catindig, J. L. A. 3456  
Catley, M. A. 7827  
Catling, H. D. 7700  
Catoni, M. 11856  
Cau, H. D. 2386  
Caubet, B. 7654  
Caudwell, A. 5252, 9879  
Caulfield, F. 4640  
Causanel, C. 9130  
Causse, R. 5738  
Caux, P. Y. 7584  
Cavadoss, C. F. G. 4164  
Cavaliere, L. F. 3086, 11359  
Cavalli, V. 9863  
Cavallini, G. 11853  
Cavallo, A. R. 9789  
Cavalloro, R. 9405  
Cavanagh, J. B. 1364  
Cavegn, C. 11534  
Cavey, J. F. 744, 3126  
Cayley, P. J. 5228  
Cayol, J. P. 5738  
Cayre, M. 1406, 9205  
Cecchini, A. 9876  
Cech, J. J., Jr. 1378  
Cedeño, A. 6786  
Ceglarska-Hodi, E. 11033  
Celli, G. 2109  
Cellini, A. 3370  
Cenis, J. L. 7318  
Center, B. J. 3993  
Center, T. D. 3694, 11016  
Cervávol, L. C. 8786  
Cerde, H. 5574, 7862, 8254  
Cerde, H. P. 5839  
Cerdá, X. 11313, 11416  
Cerde, X. 207  
Cerde G., M. 5095  
Cerezke, H. F. 6790  
Cerioli, C. 840, 6880  
Cermeli, M. 624, 4383, 5462-5463, 7687, 10725  
Cerón, J. J. 4291, 8947, 10585  
Cerrano-Moreira, A. F. 4733  
Cerro, A. L. del 11237  
Cerutti, F. 8389  
Cerutti, M. 6262  
Cervancia, C. R. 474  
Cervinka, R. 6950  
Cervigier, P. 10703  
Cescatti, A. 4736, 6796  
Cesnik, R. 6687  
Céspedes Z., R. 601  
Çetin, G. 1149  
Ceustermans, N. 10795  
Cha, J. Y. 3218, 10085  
Chabala, E. D. 462  
Chabert, A. 1415  
Chabert, C. 11534  
Chacon, A. 7528  
Chacón, P. 5457  
Chacón de Ulloa, P. 10559  
Chader, G. J. 10208  
Chadha, K. L. 8789  
Chadwick, A. 6080  
Chadwick, J. S. 3868  
Chagas, C. M. 10892  
Chahine, H. 3299  
Chai, M. 10643  
Chai, S. 3344  
Chai, X. M. 7354  
Chai, Y. Q. 11526  
Chaika, V. N. 6559  
Chaika, V. N. 9774  
Chakir, M. 1002, 1006  
Chakrabarti, A. K. 6569, 7765  
Chakrabarti, B. 5744, 8482  
Chakrabarti, C. S. 8190  
Chakrabarti, S. 15, 23, 1693  
Chakraborty, D. 8475  
Chakraborty, K. K. 5360  
Chakraborty, N. 9860  
Chakrani, F. 1922  
Chakravarthy, A. K. 1750-1751, 7989  
Chakravarty, A. 9633  
Chakrapurakal, J. 6567  
Chalabesa, A. 6567  
Chalfant, R. B. 5469  
Chalwatzis, N. 10220  
Chamberlain, D. J. 5610  
Chamberlain, K. 7322  
Chamberlin, M. E. 2909  
Chambers, A. J. 2805  
Chambers, D. 4366  
Chambers, D. L. 1295, 4367, 6285  
Chambers, J. 10674  
Chambers, J. E. 7557  
Chambers, R. G. 418  
Chambers, R. J. 625, 793, 878, 9274  
Champ, B. R. 2816-2817, 6909  
Champagne, D. E. 10018  
Chan, C. H. 11674  
Chan, C. L. 2847  
Chan, G. L. 1979  
Chan, H. 3137  
Chan, H. T., Jr. 9155, 9904  
Chan, K. L. 1052  
Chan, T. Y. K. 3709  
Chancellor, T. C. B. 10742  
Chandé, R. S. 8570  
Chandel, Y. S. 2590, 9761, 9816  
Chander, S. 1592, 3587, 11786  
Chandi, J. S. 7665  
Chandler, C. K. 11867  
Chandler, D. 1249, 8441  
Chandler, D. S. 9058, 10317-10318  
Chandler, K. J. 11950  
Chandler, L. 7729  
Chandler, L. D. 2256, 2272, 2276, 6461-6462, 8496, 10707  
Chandler, P. 2840  
Chandra, H. 5020  
Chandra, H. 7986  
Chandra, K. 1145  
Chandra, N. 6592  
Chandra, R. 5819  
Chandra, S. 274  
Chandrakantha, J. 834  
Chandrakar, H. K. 2467  
Chandramani, P. 598-599  
Chandramohan, K. 1201  
Chandramohan, N. 599  
Chandrapatya, A. 56  
Chandrashekharaiah 11466  
Chaney, W. E. 10808-10809  
Chang, B. S. W. 4996  
Chang, C. 8668  
Chang, C. P. 8472  
Chang, C. Y. 11215  
Chang, F. 177, 5696-5697



- Chang, J. S. 4997  
 Chang, J. Y. 386  
 Chang, K. S. 3196, 5019, 10885  
 Chang, L. R. 2810  
 Chang, N. W. 1872, 7461, 8998  
 Chang, R. 9929  
 Chang, S. J. 2462  
 Chang, V. C. S. 11919  
 Chang, Y. C. 5201  
 Chang, Y. D. 7355, 7704  
 Chang, Z. 7136  
 Chanpaisang, J. 11498  
 Chant, D. A. 3219, 5180, 5815, 8056  
 Chantaprapha, N. 4443  
 Chao, C. H. 10837  
 Chao, Y. 2970  
 Chao, Y. Z. 10331  
 Chapco, W. 4141, 5985, 7149  
 Chapela, I. H. 10361  
 Chapelle, B. de la 1887  
 Chapelle, L. 3213, 9432  
 Chapin, J. W. 4630, 6715  
 Chapin, R. E. 496  
 Chapman, G. B. 3202  
 Chapman, J. C. 9609  
 Chapman, K. S. R. 805  
 Chapman, P. F. 10499  
 Chapman, P. S. 7061  
 Chapman, R. B. 436  
 Chapman, R. F. 3965, 6061, 10204, 12091  
 Chapman, T. 1869  
 Chappe, B. 5693  
 Chappell, D. J. 1234  
 Chapple, A. C. 273, 3156  
 Chapple, M. 1302  
 Chapuis, P. 2547  
 Charalambidis, N. D. 3814, 4932  
 Charan, C. 2058  
 Chareyre, P. 1047, 9231  
 Chari, M. S. 5615  
 Charieva, O. V. 4253  
 Charjan, S. K. U. 4804  
 Charles, H. 9213  
 Charles, J. F. 2181  
 Charles, J. G. 640, 6637, 6695, 10869  
 Charles, J. P. 11217, 11271  
 Charlesworth, B. 2953, 5998, 7114, 11072  
 Charlet, L. D. 681, 1110, 6707  
 Charliwood, B. V. 2230  
 Charmillot, P. J. 8756, 9862, 11878  
 Charnay, M. P. 1442  
 Charnley, A. K. 371, 3277, 6237, 7071, 7424-7425, 11502  
 Charpentier, R. 4889  
 Charpin, P. 9205  
 Charron, D. 8846  
 Chartoff, E. H. 9250  
 Chase, J. M. 3689  
 Chassain, C. 3212  
 Chatterjee, G. K. 346  
 Chatterjee, M. L. 5283, 5442  
 Chatterjee, R. N. 10229  
 Chatterjee, S. 470, 2295, 4280, 5312, 11638  
 Chatterjee, S. N. 346  
 Chatterjee, S. Y. N. 1735  
 Chattopadhyay, A. 7317  
 Chattopadhyay, S. 1396, 7317, 10338  
 Chatteraj, A. N. 10535  
 Chaturvedi, G. S. 6283  
 Chaturvedi, H. K. 181  
 Chaturvedi, R. V. 1732, 3675  
 Chaubet, B. 8636, 10692, 11719  
 Chaud-Netto, J. 3938  
 Chaudhari, A. K. 7730  
 Chaudhari, R. D. 5197  
 Chaudhari, S. 8555  
 Chaudhari, S. D. 7689  
 Chaudhary, J. P. 331, 1616, 3594, 5182, 7744, 11951  
 Chaudhary, M. B. 1480  
 Chaudhary, O. P. 8629  
 Chaudhary, R. N. 8653  
 Chaudhary, S. D. 4639  
 Chaudhary, Y. R. 1613  
 Chaudhri, W. M. 8059  
 Chaudhry, M. A. 5610  
 Chaudhuri, A. 345, 3241-3242, 8475-8476, 10160  
 Chaudhuri, R. P. 10016  
 Chaudhuri, S. K. 8608  
 Chaudhury, M. F. B. 3736  
 Chaufaux, J. 4158  
 Chauhan, A. K. 10353  
 Chauhan, N. 1814  
 Chauhan, R. 11576  
 Chauhan, R. L. 8323  
 Chauhan, R. S. 2892  
 Chauhan, S. S. 8025  
 Chauhan, S. V. S. 2603, 2634  
 Chauhan, T. P. S. 8195  
 Chauhan, U. 3507, 4478, 5851, 7739  
 Chaumluk, P. 10993  
 Chaurasia, R. S. 6819  
 Chauret, D. 11701  
 Chautems, D. 973, 5142  
 Chauvin, G. 526  
 Chaves T., H. A. 619  
 Chay, C. 10453  
 Cheah, C. A. 221  
 Cheam, A. H. 8010  
 Chebira, S. 2281  
 Cheek, S. 4220  
 Chek, A. A. 10655  
 Cheke, R. A. 6277  
 Chelliah, S. 2451  
 Chelombit'ko, V. A. 2732  
 Chemaly, G. 8378  
 Chemengich, B. T. 8687  
 Chempakam, B. 1782  
 Chemsak, J. A. 3771  
 Chen, A. P. 7890  
 Chen, B. Q. 2201, 10374  
 Chen, B. X. 3090  
 Chen, C. 2563, 8778  
 Chen, C. C. 2421, 3101, 5549, 10837  
 Chen, C. F. 3392  
 Chen, C. J. 2392  
 Chen, C. M. 8382  
 Chen, C. N. 2339  
 Chen, C. P. 3857  
 Chen, C. Y. 5201  
 Chen, C. Z. 3239  
 Chen, D. F. 2359  
 Chen, D. M. 8785  
 Chen, D. N. 9457  
 Chen, F. Q. 3495  
 Chen, G. 2201  
 Chen, G. H. 11860  
 Chen, G. M. 8659  
 Chen, H. 9263, 10927  
 Chen, H. D. 5064  
 Chen, H. F. 11973  
 Chen, H. L. 5689  
 Chen, H. Y. 10548  
 Chen, H. Z. 3745, 9051  
 Chen, J. 6317  
 Chen, J. H. 8165, 9202  
 Chen, J. J. 7509  
 Chen, J. L. 1316, 5235, 10689  
 Chen, J. M. 9416  
 Chen, J. N. 11573  
 Chen, J. Q. 9955  
 Chen, J. S. 2146  
 Chen, J. W. 11750  
 Chen, J. X. 13, 8244  
 Chen, L. G. 6492  
 Chen, M. 3311, 8511, 10710, 10900  
 Chen, M. X. 11255  
 Chen, N. C. 11575  
 Chen, P. 2471  
 Chen, P. R. 715, 1625  
 Chen, P. S. 10142  
 Chen, Q. 8674  
 Chen, R. 11268  
 Chen, R. C. 5201  
 Chen, S. G. 10373  
 Chen, S. M. 6114, 7875, 8374  
 Chen, S. W. 8579  
 Chen, S. Z. 657  
 Chen, T. F. 3481  
 Chen, T. Y. 9114  
 Chen, W. H. 2536  
 Chen, W. L. 1001, 3812  
 Chen, W. M. 8785  
 Chen, W. P. 393, 10669  
 Chen, W. X. 9720  
 Chen, X. 4565, 4854, 8181  
 Chen, X. B. 9329  
 Chen, X. F. 955, 3804  
 Chen, X. W. 9590  
 Chen, Y. 2980  
 Chen, Y. H. 6100  
 Chen, Y. L. 8298, 8579  
 Chen, Y. M. 310, 7682  
 Chen, Y. Q. 10206, 10558  
 Chen, Y. T. 4954  
 Chen, Y. X. 9637  
 Chen, Z. 5310, 10353  
 Chen, Z. A. 11525  
 Chen, Z. E. 262  
 Chen, Z. G. 8832  
 Chen, Z. H. 8168, 9553  
 Chen, Z. L. 657, 9944  
 Chen, Z. R. 11476  
 Chen, Z. X. 2446  
 Chen, Z. Y. 2359  
 Chenaull, K. D. 7476  
 Cheney, C. M. 7123  
 Cheng, C. C. 2536  
 Cheng, D. R. 11768  
 Cheng, E. Y. 6327  
 Cheng, G. R. 10917  
 Cheng, H. H. 702  
 Cheng, H. J. 10694  
 Cheng, J. A. 9416, 9730  
 Cheng, J. Y. 4444  
 Cheng, N. N. 8210  
 Cheng, R. Y. 2669  
 Cheng, W. Y. 2003, 2606, 6114, 7875, 8374  
 Cheng, X. 5301  
 Cheng, X. N. 4444  
 Chentsova, N. A. 994, 5870  
 Cheon, D. K. 2901  
 Cheon, H. M. 11515  
 Cheplick, G. P. 5455  
 Chepuraya, V. I. 11864  
 Cherbas, P. 8193  
 Cheremisinoff, N. P. 2826  
 Cherenkov, V. V. 2593  
 Cherim, N. A. 99  
 Cherix, D. 973, 5142  
 Chermitt, B. 6711  
 Cherni, A. M. 6559  
 Cherrett, J. M. 293, 9273, 9572  
 Cherrill, A. 3669  
 Cherry, A. J. 7433  
 Cherry, R. H. 3978  
 Cherry, R. S. 958  
 Cheshire, D. 4086  
 Chesterikoff, A. 8574  
 Chestukhina, G. G. 5243, 11517  
 Cheung, I. L. 11211  
 Cheung, W. W. K. 5904, 10414, 11154, 11510  
 Chevreuril, M. 4340, 8574  
 Chew, F. S. 5050, 5717, 8247  
 Chew, N. 10534  
 Chew, V. 10904  
 Chez, D. 4411  
 Chhabra, K. S. 3489  
 Chhetry, G. K. N. 7798  
 Chhillar, B. S. 3593, 3593, 4639  
 Chhotani, O. B. 2035  
 Chhuneja, P. K. 4638  
 Chhutto, A. B. 1609  
 Chi, H. 1175, 1508  
 Chi Hsin 1175  
 Chianese, R. J. 4041  
 Chiang, F. M. 5299, 8504  
 Chiang, J. K. 2622  
 Chiang-Lok, M. L. 1479, 8695  
 Chiappini, E. 7342, 9444  
 Chiara, S. R. di 8058  
 Chiarenzelli, J. R. 9642  
 Chian, B. J. 354  
 Chiavogato, L. G. 3558, 3934  
 Chiba, A. 1008  
 Chica, V. 6429, 6446-6448  
 Cicas, J. M. S. 8694  
 Chien, C. C. 2105, 3216, 10336  
 Chifflet de Llamas, M. 10590  
 Chihrane, J. 2007  
 Chilcote, C. A. 732  
 Chilcutt, C. F. 8900, 9566  
 Childers, C. C. 259, 2578, 3220-3221, 4589, 5520, 5554  
 Chile, Comité Nacional de Sanidad Forestal 1691  
 Chile, Corporación Nacional Forestal 1691  
 Chillemi, G. 2539  
 Chin, P. S. 7043  
 Chin, R. 2355  
 China, Entomological Society of China 9046  
 China, Guizhou Academy of Agricultural Sciences, Tea Research Institute 8429  
 China, National Coding Moth Cooperative Research Group 9829  
 Chinchilla, C. 682  
 Chinchilla, C. M. 683, 7058  
 Chino, K. 10829  
 Chino, M. 6481  
 Chinta, S. 7517  
 Chippendale, G. M. 3823, 8508, 11275  
 Chiron, S. 5361  
 Chishti, M. J. K. 10115  
 Chitra, K. C. 9815, 9908, 10015  
 Chitra, T. 582  
 Chittawong, V. 1404, 6401  
 Chitzanidis, A. 8800  
 Chiu, S. F. 6296, 6328, 6394, 6864, 9660  
 Chiu, Y. J. 3969  
 Chizhov, V. N. 10452  
 Chloridis, A. 1883, 2526  
 Cho, H. C. 301  
 Cho, J. R. 9597  
 Cho, K. 9279, 9809  
 Cho, K. W. 3828  
 Cho, K. Y. 9597, 11595, 11700  
 Cho, M. R. 6976, 12026  
 Cho, Y. S. 11594  
 Chock, S. 1302  
 Choffat, Y. 11232  
 Choi, B. R. 5691  
 Choi, H. 12079  
 Choi, I. H. 7982  
 Choi, J. S. 7636  
 Choi, J. Y. 6599  
 Choi, K. 7228  
 Choi, K. M. 5526, 5835, 6599, 7636  
 Choi, K. W. 7138  
 Choi, M. K. 4955, 10196  
 Choi, S. K. 8222  
 Choi, S. R. 1238  
 Choi, S. S. 6976  
 Choi, T. J. 11516  
 Choi, W. I. 8343  
 Choi, W. Y. 11079  
 Choi, Y. H. 7003, 9597, 11156  
 Choldumrongkul, S. 2738, 11008  
 Chonan, T. 7573  
 Chonggrattanmeteeul, W. 11498  
 Choo, H. Y. 10448  
 Chotkowski, J. 2499  
 Chou, H. C. 5201  
 Chou, I. 8106  
 Chou, K. 10584  
 Chou, K. C. 2337, 6170  
 Chou, L. Y. 39, 290, 6170  
 Chou, Y. 8106  
 Choudary, C. 9595  
 Choudary, C. H. 9627  
 Choudary, P. V. 7457  
 Choudhury, A. K. 839  
 Choudhury, D. A. M. 11822  
 Choudhury, P. P. 680  
 Chouinard, G. 4549  
 Chow, Y. S. 8164  
 Chowdhury, A. B. M. N. U. 3526  
 Chowdhury, P. K. 5592  
 Chowdhury, S. 8222  
 Chowdhury, S. R. 11053  
 Chown, S. L. 5075, 8091



Chrislip, D. 8531  
Chrispeels, M. J. 2777, 9163  
Christ, B. 7756  
Christeller, J. T. 279, 1468, 5879, 9160  
Christensen, J. V. 2560  
Christensen, K. M. 10963  
Christensen, M. J. 6513  
Christensen, T. A. 5834, 7076  
Christenson, J. R. 11392  
Christerson, L. B. 4998  
Christian, D. G. 7652  
Christian, E. 1180, 1189, 10256  
Christian, K. 11921  
Christian, P. D. 2177  
Christiansen, K. 13  
Christianson, L. 8915  
Christie, A. 10745  
Christie, I. 10252  
Christie, S. J. 6913  
Christopher, A. 11939  
Christopher, J. T. 3386  
Christopher, M. S. M. 4762  
Chu, C. C. 10794  
Chu, F. L. E. 8581  
Chu, H. T. 341-342  
Chu, J. 6002  
Chu, K. H. 5320  
Chu, L. F. 10887  
Chu, Y. I. 70-71, 312, 343-344, 552, 2003, 2105, 2126, 3101, 3216, 5019, 5438, 10336, 10490, 10718, 10885  
Chuang, C. Y. 5201  
Chue, C. 1931  
Chuiko, G. M. 8519  
Chujo, M. 12032  
Chukhrii, M. 7397  
Chun, J. S. 8508  
Chun, Y. S. 10248  
Chundurwar, R. D. 7689  
Chung, J. D. 2181  
Chung, K. H. 6384, 12075  
Chung, K. W. 1933  
Chun, Y. D. 1933  
Chunwongse, J. 3525  
Churchill, S. K. 248  
Churchill, T. A. 4908  
Chuyko, G. M. 90  
Chyb, S. 3841, 9197, 10681  
Chysanthis, G. 2914  
Chyzik, R. 8390, 8805  
Ciampolini, F. 8391  
Ciampolini, M. 2538, 11733  
Ciba-Geigy 10477  
Cibrán-Tovar, J. 3960, 5041, 11146, 11730  
Cicero, S. M. 2420  
Ciesielski, F. 1552, 2400, 2591  
Ciesielski, S. 9624  
Ciesla, W. M. 1678  
Cifuentes, J. 7278  
Cigliano, M. M. 4451  
Cilas, C. 9938  
Çilgi, T. 6035, 7566, 7660  
Cilliers, C. J. 5720, 7815  
Cinti, S. 1548  
Ciociola, A. L. 7016, 8253  
Cioè, L. 2985  
Cioni, F. 11953  
Cishahayo, D. 587  
Cisneros, F. 5473  
Cissé, B. 4434  
Čitková, M. 7607  
Ciupa, W. 1131  
Ciurea, A. 564  
Ciurlino, R. A. 648  
Civantos, M. 6709  
Cividanes, F. J. 4016, 4472, 9324  
Cladera, J. L. 11236  
Clair, D. 10868  
Clancy, K. M. 8878, 9998  
Clapperton, B. K. 3119  
Clardy, J. 6401  
Clare, A. S. 10586  
Clare, G. K. 1178  
Claridge, M. F. 573, 2688  
Clark, A. G. 1026, 5966  
Clark, D. R., Jr. 11614  
Clark, J. 11038  
Clark, J. M. 4269, 6325, 7527, 9223, 10595, 12093  
Clark, J. R. 2357  
Clark, K. L. 6059  
Clark, L. E. 8844  
Clark, M. J. 3543  
Clark, M. S. 3437  
Clark, R. 845  
Clark, R. F. 1931  
Clark, S. 2263  
Clark, S. J. 3291, 4620, 5109, 5829, 10430, 11600  
Clark, T. B. 3004  
Clark, W. H. 2045, 4973  
Clarke, A. 4750  
Clarke, A. R. 7156  
Clarke, C. A. 3748  
Clarke, F. M. M. 3748  
Clarke, J. 11065-11066  
Clarke, N. D. 1524  
Clarke, P. A. 2684  
Clarke, R. T. 9112, 9322  
Clarke, S. R. 7945  
Clarkson, J. M. 3277  
Claus, H. 9462  
Claus, J. D. 2165  
Clavel, D. 10719  
Claver, S. 4023  
Clavijo, M. P. 6644  
Clavijo A., J. 5683  
Clavijo A., S. 1108, 7675  
Clawson, S. 6748  
Clay, K. 5455  
Clear-Hill, B. 6859  
Cleemann, M. 9631  
Clem, R. J. 9509  
Clement, G. L. 2653  
Clement, J. L. 7028, 8142  
Clement, S. L. 5729  
Clercq, P. de 2133, 7581, 9083, 11591  
Clercq, R. de 7973, 8730, 10470  
Clifford, P. A. 1379  
Cline, L. D. 4809  
Cline, T. W. 5960  
Closs, G. 2106  
Clough, V. 8560  
Cloutier, C. 2712, 3661, 9783  
Coaker, T. H. 221  
Coakley, C. W. 4225  
Coale, F. J. 3978  
Coast, G. M. 979, 2920, 5902, 5938  
Coats, G. E. 6471  
Coats, J. R. 6314, 6320, 7556  
Coats, S. A. 4915  
Çobanoğlu, S. 1537, 6775, 9528  
Cobb, G. P. 7598  
Cobb, M. 2989  
Cobey, S. 4108  
Cobin, J. A. 8575  
Cobos, P. 6116  
Coca-Abia, M. 1833  
Coccini, T. 469  
Cochran, R. C. 8536  
Cochrane, J. 534  
Cociancich, S. 1916, 8169  
Cock, A. de 6318, 7581  
Cock, J. de 11636  
Cock, M. J. W. 1626, 6050, 6427  
Cockburn, A. F. 1943  
Cockcraft, V. 3379  
Cocke, J., Jr. 6467  
Cockfield, S. D. 3544  
Codani-Simonart, S. 163  
Coddington, J. A. 3781  
Code, G. R. 2805, 8010  
Codella, S. G., Jr. 12010  
Coderre, D. 2156, 8436  
Codex Committee on Pesticide Residues 10599  
Codling, E. E. 2362  
Coehlo, L. C. B. B. 10903  
Coffelt, J. A. 11693  
Coffelt, M. A. 7916  
Cofie-Agblor, R. 6892  
Cogan, P. M. 4802  
Cogle, A. L. 7678  
Cognato, A. I. 11095  
Coguill, S. L. 4942  
Cohen, A. C. 1632, 10794  
Cohen, D. E. 10481  
Cohen, D. L. 2652  
Cohen, E. 7532  
Cohen, G. H. 2080  
Cohen, J. E. 7713  
Cohen, M. B. 1945  
Cohen, N. E. 970  
Cohen, P. 11230  
Cohen, P. T. W. 11255  
Cohen, S. M. 8227  
Coillot, J. P. 356, 11472  
Cojocar, D. 564  
Cola, G. di 9405  
Colbert, J. J. 1174, 1641, 10252  
Cole, B. J. 4083, 4086, 11168, 11409  
Cole, D. C. 416  
Cole, F. A. 3377  
Cole, L. M. 3363  
Cole, M. D. 5121  
Cole, R. A. 816  
Colegrave, N. 11044  
Coleman, D. C. 3395  
Coleman, R. J. 6740  
Coleman, S. 5929  
Colgan, P. W. 9603  
Coli, W. M. 648, 879, 6641  
Colin, M. E. 1339  
Colina, C. de la 5292  
Coll, J. 5381  
Coll, M. 1949, 4476, 5424, 7576, 9755  
Colleaux, L. 11198  
Coller, L. M. van 2609  
Colleran, M. 10144  
Collett, N. G. 7912  
Collier, T. R. 9299, 9303, 9435  
Collingwood, P. 11706  
Collins, D. A. 10044  
Collins, H. 8480  
Collins, J. K. 9827  
Collins, M. 2325  
Collins, M. S. 5797  
Collins, P. J. 6680  
Collins, R. D. 3996, 9141  
Collman, S. 3663  
Colloff, M. J. 6961  
Colmorgen, M. 7010  
Colombia, Grupo Integrado de Manejo de Plaguicidas 2627  
Colombo, M. 2720, 8509  
Colquhoun, S. 11229  
Cólus, I. M. S. 3434  
Colvin, C. L. 6171  
Colvin, J. 7212, 9339, 11796  
Coly, E. V. 2138  
Colyer, P. D. 8840  
Colyn, J. 882, 8790  
Comas, J. 11713  
Comba, P. 2315  
Common, I. F. B. 6981  
Compton, S. G. 672, 1967, 5700, 6672-6673  
Conacher, A. J. 2093  
Conchello, M. P. 2298  
Conchello, P. 5336  
Conchon, I. 7267  
Conde, B. D. 10833  
Conde, J. 8356  
Conde, M. R. G. 2872  
Condron, B. G. 1012  
Conducta, V. L. 5973  
Cone, W. W. 6834, 11007  
Čonevska, V. 2345  
Confalonieri, V. A. 3897  
Congdon, B. C. 6106  
Congote, L. F. 3829  
Conlong, D. E. 2609  
Connell, D. W. 4450, 8593  
Connell, T. R. 7762  
Conner, A. J. 11552  
Conner, J. 3062, 8022  
Conner, W. E. 7191  
Connery, J. 11718  
Connolly, J. D. 5381  
Connolly, K. 1960, 1993  
Connor, E. F. 11353, 12025  
Connor, R. C. 10250  
Cónsoli, F. L. 9017  
Constable, M. 4285  
Constant, B. 8113  
Constantin, R. J. 2719  
Constantino, L. M. 175  
Contangelo, P. 10824  
Contessi, A. 12082  
Conti, A. 2118, 10811  
Conti, B. 8808  
Conti, M. 10811  
Convey, P. 141  
Cook, A. 1094  
Cook, A. G. 10742  
Cook, B. J. 9207, 9554  
Cook, D. 10044  
Cook, J. 2077  
Cook, J. L. 6102  
Cook, J. M. 8293, 11441  
Cook, L. S. J. 5326  
Cook, M. A. 144  
Cook, P. A. 788, 3848  
Cook, R. M. 2337, 10584  
Cook, S. P. 9419  
Cooke, L. 6168, 11032  
Cooley, D. R. 6641  
Cooley, J. R. 11301  
Cooley, L. 3847  
Cooley, S. S. 516  
Coombs, E. M. 2750  
Coombs, M. 229  
Coop, L. B. 9859  
Cooper, B. E. 1831  
Cooper, B. M. 7725  
Cooper, C. M. 11671  
Cooper, J. A. 2553  
Cooper, J. F. 7324  
Cooper, J. F. M. 8990  
Cooper, J. M. 5747  
Cooper, M. K. 2949  
Cooper, R. J. 7594  
Cooper, R. M. 3277  
Cooper, S. E. 3160  
Cooper, S. J. B. 2990  
Cooter, R. J. 7212, 9339  
Cooters, R. J. 1449  
Copland, M. J. W. 1877, 2134, 5855, 7365, 11790  
Coppedge, B. R. 3818, 3863, 9347  
Coppen, G. D. A. 7324  
Copping, L. G. 3723  
Coquio, S. 4032  
Corazon, M. 11593  
Corbella, J. 8564  
Corbitt, T. S. 11209  
Corbo, K. 10261  
Corcoran, R. J. 383  
Corcuera, L. J. 3435, 9741  
Cordell, C. E. 8898  
Cordell, G. A. 3413  
Cordero, V. 4442  
Cordo, H. A. 5716  
Coremans-Pelseneer, J. 2335, 3259  
Cork, A. 7631  
Corliaa, J. 1183  
Corn, M. 2823  
Cornelius, M. L. 6205  
Cornell, H. V. 10287, 11420  
Cornish, P. 3143  
Coro, F. 982, 4957  
Corrao, G. 2315  
Correa, J. 3458  
Correa da Silva, A. 1965  
Correia-Ferreira, B. S. 7226, 7304  
Corredor, C. 4979  
Correia Maltz, A. 6649  
Corrigan, J. E. 1215, 7363, 8280, 9433  
Cortada, R. V. 3305  
Cortés, M. L. 2490  
Cortesero, A. M. 4482  
Corvello, C. M. 10410  
Cory, J. S. 219, 5228, 6241, 6457, 7384  
Coscollá Ramón, R. 9870  
Cosens, D. 679  
Cósoli, F. L. 7247  
Cossé, A. A. 4604  
Cossentine, J. E. 7164, 8758  
Cosson, L. 8353



- Costa, C. 2477, 4848  
 Costa, C. L. 2865, 8079  
 Costa, E. C. 1460, 6287, 10876  
 Costa, E. F. da 8451  
 Costa, H. S. 8747  
 Costa, L. A. A. 1848  
 Costa, L. G. 469, 1371-1372  
 Costa, R. 2975  
 Costa, S. D. 8132  
 Costa-Comelles, J. 2131, 6650  
 Costa-Leonardo, A. M. 1910, 2144, 7015  
 Costa Val, W. M. da 10768  
 Costante, J. F. 5357, 11848  
 Costantino, R. F. 9343, 11358  
 Coste, C. M. 1375  
 Costella, R. G. 413  
 Costello, C. E. 1606  
 Costello, M. 6587  
 Costello, M. J. 132, 4508, 7766, 9804  
 Costilla, M. A. 1424, 1478  
 Côté, J. C. 2156, 8436  
 Cotham, W. E. 1184  
 Coto, T. D. 7335  
 Cotter, A. M. 1345, 10653  
 Cottrell, J. M. 7099  
 Couble, P. 7377  
 Coudriet, D. L. 4664  
 Couillaud, F. 3851, 4267  
 Coulibaly, A. D. 11004  
 Coulibaly, A. K. 7309  
 Coulson, D. 10615  
 Coulson, J. R. 11542  
 Coulson, S. 4006, 7027  
 Coulson, S. J. 8970  
 Coulston, F. 3401  
 Coupland, J. 6054  
 Coupland, J. B. 353, 8403  
 Courant, A. V. 5717, 8247  
 Cournoyer, M. 2160  
 Courts, S. 7496  
 Cousins, D. J. 2819  
 Cousserans, F. 11483  
 Coustau, C. 9399, 10608  
 Coutinho, C. B. 3806  
 Coutinho, R. S. B. 4654  
 Coutinho, D. 563, 11717  
 Couturier, G. 2516, 5654, 6671, 9902  
 Cova, D. 9594  
 Covassi, M. 782, 5667, 9990, 9995-9996  
 Covell, C. V., Jr. 7187  
 Cowan, B. F. 2629  
 Cowan, D. P. 8900  
 Cowan, P. 6233  
 Coward, N. P. 11600  
 Cowgill, S. E. 832  
 Cowles, R. S. 4265, 6754  
 Cowley, J. M. 9403  
 Cox, C. 9551, 9630  
 Cox, C. S. 3691  
 Cox, D. L. 11849  
 Cox, M. L. 11803  
 Cox, N. M. 970  
 Cox, T. S. 2416  
 Cox-Foster, D. 7966-7967, 10011  
 Coy, A. E. 9670, 9753  
 Coyea, M. R. 8926  
 Coyle, D. 7453  
 Coyne, D. P. 2491  
 Coyne, J. A. 1926, 2957, 3900  
 Cozen, R. D. 9992  
 Cragg, S. M. 12081  
 Cragnolini, C. I. 9789  
 Craig, C. 1931  
 Craig, C. L. 3781, 4116  
 Craig, D. M. 10242  
 Craig, M. 3962  
 Craig, R. 7966-7967, 10011  
 Craig, T. P. 4703, 8974  
 Craigen, R. 9397  
 Cramer, A. 10412  
 Crampton, J. M. 6911  
 Crane, M. 11819  
 Crane, P. E. 10947  
 Cranshaw, W. S. 515, 4465, 8874  
 Cravanzola, F. 2169  
 Cravedi, P. 2273, 6878, 9874, 11692  
 Craven, D. 1953  
 Crawford, L. A. 11771  
 Creamer, R. 2205, 7826  
 Crease, T. J. 8230  
 Credland, P. F. 6897, 12068  
 Creed, R. P., Jr. 8004  
 Creffield, J. W. 10534, 11045  
 Creger, T. L. 9645  
 Cremasco, S. 7367  
 Crescenzi, A. 3521  
 Crespi, B. 5989  
 Crespi, B. J. 3929, 8097  
 Crespo, C. 7599  
 Cresswell, G. C. 796  
 Cresti, M. 8391  
 Crétin, C. 2430  
 Créton, R. 954  
 Créus Vidal, J. M. 8572  
 Crewe, R. M. 5081  
 Crickmore, N. 11495  
 Crill, W. D. 8246  
 Cripe, G. M. 6373  
 Cripps, R. M. 1035  
 Crisanto, T. 2366, 4337  
 Crispi, S. 11243, 11273  
 Crissman, C. C. 416  
 Crist, T. O. 2086, 5056, 8395  
 Cristinzio, G. 684  
 Cristofaro, A. de 1548, 6703  
 Cristofaro, M. 4787  
 Criswell, J. T. 6877  
 Critchley, J. A. J. H. 3709  
 Crittenden, A. P. 3900  
 Crivineanu, V. 478  
 Crnjcar, R. 3748  
 Croat, T. B. 1722  
 Crocker, R. L. 11711  
 Crocker, T. E. 11867  
 Crocorno, W. B. 9811  
 Croft, B. A. 4554, 9438, 9520, 9859, 12049  
 Croft, P. 1877, 5855, 7365  
 Croisé, L. 2695  
 Croizier, G. 1256, 4167, 10416  
 Croizier, L. 4167, 10416  
 Croll, R. P. 354, 2150, 2152  
 Crommentuijn, T. 9543  
 Cronin, J. T. 217, 247, 4777, 5165, 5175  
 Crook, A. 10100  
 Cropper, M. L. 416  
 Crosby, D. F. 10995  
 Crosland, M. W. J. 4128  
 Cross, J. V. 10840  
 Crossley, D. A., Jr. 3395  
 Crosthwaite, I. 9043  
 Croteau, R. 10967  
 Crouzel, I. S. de 7282  
 Crowe, M. L. 6762, 11329  
 Crozier, L. M. 9856  
 Crozier, R. H. 4085  
 Cruickshank, V. M. 3310  
 Crum, S. J. H. 2350  
 Crutchfield, B. A. 2725  
 Cruz, A. P. 4695  
 Cruz, B. 1479, 7738, 8695  
 Cruz, C. D. 1329, 8515  
 Cruz, C. R. de la 4814  
 Cruz, F. Z. da 8827  
 Cruz, I. 7677  
 Cruz L., J. de la 3565  
 Cruz-Landim, C. da 1870  
 Cruz-Lopez, L. 8135  
 Csiszinszky, A. 6832  
 Cuany, A. 5884  
 Cubeddu, M. 2532, 10878  
 Cubillo, D. 629, 7528  
 Cuda, J. P. 821  
 Cudare, Z. 3261-3262  
 Cuellar, M. E. 5478  
 Cuevas, A. 3470  
 Cui, J. R. 2471  
 Cui, L. S. 718  
 Cui, S. Q. 8668  
 Cui, Y. L. 11527  
 Cui, Y. S. 11132  
 Cui, Z. L. 3496, 11768  
 Culbreath, A. K. 1606, 3586  
 Culin, J. D. 6458, 7012, 7161  
 Cullen, M. C. 4450  
 Culley, J. L. B. 4417  
 Cullum, R. F. 505  
 Cultivar 1497, 1595  
 Cumming, J. M. 5033, 11148  
 Cummings, C. E. 3265  
 Cummings, S. A. 108  
 Cun, D. Y. 10054  
 Cunfer, B. M. 6439, 9690  
 Cunha, M. S. da 1856  
 Cunningham, J. C. 365  
 Cunningham, R. T. 4365, 4367, 4378, 5378, 6285, 7507, 7632, 9653  
 Cuperus, G. W. 6877  
 Cuperus, R. 5285  
 Cupidi, A. 10836  
 Cuppen, J. G. M. 1113  
 Curbelo Tribicio, I. 8817  
 Cure, J. R. 7913  
 Curkovic S., T. 5629, 9901  
 Curl, E. A. 5676  
 Currado, I. 9666  
 Currie, D. 10614  
 Curry, J. 7907, 11398  
 Curry, P. 1359  
 Curriess, S. W. 11261  
 Curto, M. 2169  
 Curto, S. M. 1617  
 Curwen, D. 7762  
 Cushing, J. M. 2056, 9343, 11358  
 Cushman, J. H. 3923  
 Cusi, M. G. 2985  
 Cusinato, O. 979  
 Cusson, M. 995  
 Custer, C. M. 10626  
 Custer, T. W. 2327, 2353, 10626  
 Cutler, B. 5943  
 Cutler, D. E. 11297  
 Cutting, J. G. M. 7842  
 Cuttle, M. F. 5922  
 Cyborowski, B. 2938  
 Cyprus, Agricultural Research Institute 2806  
 Czaplicki, E. 2247, 10526  
 Czechowski, W. 5144-5147, 11414-11415  
 Czepak, C. 3476  
 Czerzak, S. 4281  
 Czeskis, B. A. 1400  
 Czihak, G. 7011  
 Czosnek, H. 7792  
 Da Costa, E. F. 8451  
 Da Costa Val, W. M. 10768  
 Da Cruz, F. Z. 8827  
 Da Cunha, M. S. 1856  
 Da Fonseca, C. R. V. 3774  
 Da Gama, M. M. 6756  
 D'A. Rosenthal, M. 7801  
 Da S. Carvalho, R. 3991  
 Da Silva, C. A. D. 323  
 Da Silva, D. B. 9672  
 Da Silva, J. A. A. 4733  
 Da Silva, J. B. 4203  
 Da Silva, L. 4144, 6227  
 Da Silva, M. F. das G. F. 6769  
 Da Silva, M. T. B. 7246  
 Da Silva, N. M. 8794  
 Da Silva, P. G. 2132  
 Da Silva, R. F. P. 9682  
 Daane, K. M. 3539, 11879  
 Daas, T. 9361  
 Dabire, R. 11717  
 Daboussi, M. J. 5008  
 Dadour, I. 3140  
 Daehler, C. C. 2752  
 Daehlin, E. 6527  
 Daft, M. J. 5356  
 Dag, A. 334  
 Dagnino, A. 11933  
 Daguzan, J. 356, 11472  
 Dahiya, A. S. 8783  
 Dahiya, B. 11576  
 Dahiya, K. K. 8783  
 Dahlbeck, D. 9813  
 Dahlgaard, J. 8185  
 Dahlman, D. L. 86, 2932, 7337  
 Dahlsten, D. L. 745, 4711, 7953, 8887  
 Dahm, K. H. 3855  
 Dahms, E. C. 7350  
 Dai, G. M. 5278, 5359  
 Dai, J. D. 132, 5917  
 Dai, J. R. 559  
 Dai, J. Y. 8432  
 Dai, X. 3408  
 Dai, Y. J. 2908  
 Dai, Z. R. 4128, 5186  
 Dai, Z. Y. 6492, 9329, 11738  
 Daiber, K. C. 5502, 9757, 11801  
 Daido, M. 5383  
 Daily, G. C. 2024, 8852  
 Dainou, O. 1932  
 Dakins, M. E. 2344  
 Dakshayani, K. 571  
 Dakshinamoorthy, T. 6889  
 Dalaya, V. P. 8655  
 Dalby, B. 5965  
 Daldorph, P. W. G. 4132  
 Dales, M. J. 8016  
 Dalimov, D. N. 3816, 4253  
 Dall, D. J. 4199  
 Dallai, R. 928, 11484  
 Dallara, P. L. 10961  
 Dalle, M. 2138  
 Dallinger, R. 5202, 9332  
 Dally, E. L. 4208  
 Dalman, P. 7834  
 Daloz, D. 3860, 4939, 5886  
 Dalusky, M. J. 9981  
 Dalvi, C. S. 6837, 8655  
 Dam-Mieras, M. C. E. van 11283  
 Dambach, P. 1381  
 Damgaard, J. 5229  
 Damgaard, P. 7767  
 Damgaard, P. H. 7435, 7777  
 Damian, D. 2572  
 Damiani, G. 6010  
 Damman, H. 4781  
 Damme, E. J. M. van 8478  
 Damme, E. van 2621, 9945  
 Damme, J. van 5124  
 Damon, A. 3915  
 Damsteegt, V. D. 4591  
 Damy, I. 7976  
 Daneholt, B. 151, 1024  
 Danewalia, P. 11652  
 Dang-Vu, K. 8211  
 Dangar, T. K. 7467  
 D'Angelo, A. M. Pechen de 10590  
 Dangerfield, J. M. 1089, 3628, 3919, 10386  
 Dani, R. C. 2443  
 Danial, L. N. 11813  
 Daniel, T. C. 10667  
 Daniell, W. 1371  
 Daniell, W. E. 1372  
 Daniels, K. M. 3226  
 Danielson, P. B. 4929  
 Danielson, S. D. 2441, 2481, 6026  
 Danilov, L. G. 6562  
 Danis, T. G. 3403  
 Danka, R. G. 9514  
 Dankowska, E. 1061, 1242  
 Danks, H. V. 6105  
 Dann, M. S. 8731  
 Danner, F. 2989  
 Danoff-Burg, J. A. 50  
 Dantchenko, A. 11159  
 Dantsig, E. M. 4837  
 Danyluk, G. M. 3282  
 Daofa, C. 10805  
 Dapsis, L. J. 7061  
 Darai, G. 5216, 8438  
 Darbellay, C. 2547  
 D'Arcy, F. F. 4252  
 D'Arcy, C. J. 8047  
 D'Arcy-Burt, S. 268  
 Dare, A. O. 1911  
 Dargagnon, D. 2008  
 Darling, D. C. 11139  
 Darlová, A. 4279  
 Darquenne, J. 3498  
 Darrah, L. L. 2422, 2432, 6107  
 Darret, D. 9217  
 Darrow, H. N. 8939



Darshan Singh 11871  
Darvas, B. 8367, 10345, 10998  
Darwinkel, A. 8628  
Dary, C. 1349  
Dary, C. C. 2318  
Das, A. 2962, 2991, 5007, 7133  
Das, A. C. 9633  
Das, A. K. 680, 4327, 5284  
Das, B. 5360, 10950  
Das, B. K. 6572  
Das, G. P. 4487, 12074  
Das, K. 8666  
Das, S. 1033, 3858, 8412  
Das C. Vidal Neto, F. 4653  
Dasgupta, J. G. 6355  
Dasgupta, T. P. 2261  
Dash, A. N. 5440, 11746  
Dash, M. C. 6377  
Dashed, S. S. 6645  
Dasheng, J. 6479  
Daskalova, S. 325  
Daskalova, S. M. 10190  
Datema, A. 224, 1092  
Daterman, G. E. 8925, 9540  
Datishin, V. A. 2561  
Datta, C. 6355  
Datta, R. K. 103, 181, 297, 656, 2174, 2176, 5730, 6213, 9218, 9254, 9468-9471, 10395, 11523  
Datta, S. K. 6573  
Datta, U. 8474  
Datz, S. G. 210  
Daubenmire, S. 6363  
Daunderser, M. 11075  
Dauphin-Villemant, C. 5932  
Dauterman, W. C. 9578, 9587  
Dave, K. I. 4241; 11496  
Davey, K. G. 408, 5931  
David, B. V. 21  
David, H. 2222  
David, J. F. 10943  
David, J. R. 1002, 1006, 1057, 1724, 1922, 1932, 2851, 2988, 5008, 7036, 7133  
David, L. 4187  
David, P. M. M. 3665  
David-Henriet Ordóñez-Giraldo, A. I. 719  
Davidson, A. W. 10747  
Davidson, D. W. 294, 6770, 9106, 10289  
Davidson, E. W. 2918  
Davidson, J. A. 2675  
Davies, A. H. 1271, 7446  
Davies, J. 8459  
Davies, P. E. 5326  
Davies, W. J. 788  
Davies, W. P. 7245  
D'Avila Rosenthal, M. 9378  
D'Avino, P. P. 11243, 11273  
Davis, A. 1978  
Davis, A. J. 3047  
Davis, A. L. V. 3087, 10400  
Davis, A. W. 1036, 1056  
Davis, B. N. K. 4547, 11618  
Davis, C. 9047  
Davis, D. R. 5794  
Davis, D. W. 4608, 9712  
Davis, F. M. 4422, 4461, 8145, 9401, 9711, 11729  
Davis, H. G. 7061  
Davis, M. G. K. 3520  
Davis, M. R. 4550  
Davis, N. T. 4954, 9188  
Davis, P. 3552  
Davis, P. M. 4421  
Davis, R. 12069  
Davis, R. E. 4208, 8205  
Davis, R. W. 4126, 9165  
Davis, S. W. 2313  
Davis, T. R. 373, 11512  
Davis-Hernandez, K. M. 7891  
Dawah, H. A. 3743  
Dawale, R. K. 5820  
Dawes, R. 1019  
Daws, J. 1793-1794  
Dawson, A. 454, 1341  
Dawson, A. F. 773  
Dawson, C. 6297  
Dawson, G. A. 3355-3356  
Dawson, G. W. 1394, 11600  
Dawson, J. H. 2757  
Dawson, J. W. 8158  
Dawson, S. P. 11198  
Day, E. R. 2258  
Day, J. L. 9670, 9753  
Day, K. R. 1700, 7950  
Day, M. F. 6953  
Day, R. K. 7963, 8933, 9942  
Day, W. H. 1176, 4041  
Dayrit, F. M. 11593  
Daza, E. 9726  
De, B. K. 5476  
De, G. C. 9376  
De, P. 10402  
De A. Moura, L. 4648  
De Alba-Avila, A. 7932  
De Alencar, J. A. 2507  
De Almeida, A. A. 4495, 8549  
De Almeida, J. R. 1985  
De Almeida, L. C. 3938  
De Almeida, M. D. 1985  
De Aquino, L. H. 5595  
De Araújo, A. M. 5011  
De Barro, P. 5105  
De Barro, P. J. 7297, 7672  
De Barros Ostiz, S. 7619  
De Beer, M. 10888  
De Berardinis, E. 8762  
De Biase, A. 11845  
De Biseau, J. C. 3188, 5058  
De Boer, G. 12091  
De Boer, J. 11609  
De Bortoli, S. A. 4412  
De Bruyn, L. 2025, 7997  
De Buron, I. 2884  
De Buzareingues, F. B. 11303  
De Campos, T. B. 2535  
De Carvalho, A. B. 8180  
De Carvalho, A. O. R. 3434  
De Castro, N. H. C. 798  
De Castro Costa, M. 7729  
De Chenon, R. Desmier 7866  
De Clercq, P. 2133, 7581, 9083, 11591  
De Clercq, R. 7973, 8730, 10470  
De Cock, A. 6318, 7581  
De Cock, J. 11636  
De Cristofaro, A. 1548, 6703  
De Crouzel, I. S. 7282  
De D'Angelo, A. M. P. 10519  
De Decker, N. 2931  
De Doucet, M. M. A. 379, 9522  
De Fanti, L. 7804  
De Faria, M. R. 8332, 8419  
De Farias, A. M. I. 9676  
De Faveri, S. 1527  
De Figueiredo, R. A. 6694  
De Freitas, S. 3808  
De Frutos, R. 2977  
De Goffau, L. J. W. 2730  
De González, P. A. 2431  
De Grisse, A. 7973, 10470  
De Groot, A. 2923, 3417, 6582  
De Groot, P. 5627, 7934, 7938, 9981-9982  
De Guzman, F. S. 3414  
De Heer, H. 2243  
De Holanda, J. S. 717  
De Jong, F. M. W. 5285  
De Jong, H. 898  
De Jong, J. 6816  
De Jong, P. W. 1018, 9259  
De K. van der Linde, T. C. 4632-4633  
De Kesel, A. 2154  
De Keyzer, A. 10699  
De Kock, A. C. 3379  
De Kort, C. A. D. 9235  
De Kort, W. L. A. M. 4270  
De Kraker, J. 6594  
De la Bourdonnaye, D. 1209  
De la Chapelle, B. 1887  
De la Colina, C. 5292  
De la Cruz L., J. 3565  
De la Guardia, M. 411, 1377  
De la Rosa, A. 6661  
De la Rosa, W. 3915  
De la Rúa, P. 8196  
De la Torre, A. I. 11395  
De la Torre, M. C. 2735  
De Lange, R. P. J. 136  
De León, R. P. 8002  
De Lima, I. S. 7207  
De Lima, J. L. S. 2507  
De Loof, A. 3866, 5124, 7085  
De Lopes, V. 1504  
De M. Beltrão, N. E. 9950  
De Maagd, R. A. 5234  
De Medeiros, M. A. 10910  
De Melo, G. A. R. 10  
De Mendoza, L. G. 1949  
De Meyer, M. 1808, 10303  
De Moraes, G. J. 323, 2507, 2528, 4833, 5478, 11702  
De Moraes, J. C. 8722  
De Nitto, G. A. 1767  
De Olano, I. 7276  
De Oliveira, A. J. 1504  
De Oliveira, E. P. 3072  
De Oliveira, J. V. 8643  
De Oliveira, M. A. 5053  
De Oliveira Guassu, C. M. 9811  
De Oliveira Rigitano, R. L. 3399  
De Paula, S. V. 8722  
De Quattro, J. 6164  
De Resende, M. L. V. 8806  
De Roos, A. M. 1206  
De Ruiter, P. C. 6086  
De Sã, L. A. N. 4416  
De Santis, L. 7282, 10935  
De Schaetzen, C. 1533-1534  
De Schroeder, T. M. F. 10519  
De Silva, J. 1  
De Silva Martins, J. F. 9721  
De Snoo, G. R. 427, 5285, 7564  
De Sousa, B. M. 4597  
De Sousa Ramalho, F. 2639  
De Sousa Ramalho, R. 7888  
De Souza, B. M. 4506  
De Souza, J. C. 3606  
De Souza, M. T. 10425  
De Souza, N. A. 717  
De Souza Filho, M. F. 2724, 4579, 7529, 8792  
De Stilinovic, C. 5374  
De T. Piza, Jr. 8792  
De Tiefenau, P. G. 1823  
De Toro, A. A. 10861  
De Tourdonnet, S. 7655  
De V. Graham, M. W. R. 1849, 2836, 9049  
De Vere Graham, M. W. R. 2857  
De Villiers, E. A. 10882  
De Voe, L. 2919  
De Vos, H. 9259  
De Vos, R. 1167  
De Vrijer, P. W. F. 4539  
De Vrijer, W. F. 5536  
De Wilde, G. 5747, 8990  
De Winter, A. J. 3979  
De Zayas, E. 1689  
Deacon, V. E. 2579  
Dean, B. B. 890  
Dean, D. A. 693, 4091, 4393, 6161, 9713  
Dean, D. H. 3276  
Dean, W. R. J. 347, 7262  
DeAngelis, J. 11041  
Dearborn, R. G. 5841  
Dearnaley, N. 6081  
Death, R. G. 6743  
Deaton, R. 2632  
Deaton, W. R. 4665  
Deb, C. 2295  
DeBach, P. 2581  
DeBarr, G. L. 6782  
Debarr, G. L. 9981  
Debec, A. 4968  
DeBen, W. A. 3377  
Debernard, S. 3851, 4267  
Debinski, D. M. 173  
DeBoer, D. L. 9713  
Debolt, J. 4059  
Debolt, J. W. 5537  
Deborre, G. 9847  
Debouzie, D. 11759, 11932  
Debrot, E. 2534, 10725  
Decazy, B. 7884  
Dechoretz, N. 2751  
Decker, H. 4946  
Decker, N. de 2931  
DeClerck-Floate, R. 7922  
Decou, G. C. 4573  
Dedek, W. 3660, 12016  
Dedordy, J. 7270  
Dedordy, J. R. 7855  
Dedryver, C. A. 60, 4403, 7640-7641, 11719  
Deenari, A. M. 1609  
Defaye, D. 7036  
Defoer, T. 631  
DeFoliart, G. R. 10392  
DeFrances, M. C. 10424  
Dégallier, N. 4849  
Degano, M. 11199  
Degheele, D. 455, 691, 2133, 3410, 4266, 6318, 7068, 7581, 9083, 9614, 9651, 11591  
Degooeyr, T. A. 3484  
DeGrandi-Hoffman, G. 4059  
Degrugillier, M. E. 2936  
Deguine, J. P. 6734, 7889  
Degwekar, V. H. 6891  
Deharveng, L. 7294, 10081  
Dehne, H. W. 8043  
Deliana, P. 5645, 6862  
Deinert, E. I. 3936  
Deitz, S. S. 4630  
Déjean, A. 282, 5131  
Dejean, A. 287, 3186, 4681-4682, 8396  
DeJong, T. M. 6655  
DeJonge, J. O. 1351  
Deka, N. 5226  
Dekeyser, M. A. 433, 4237, 4251, 5857, 11602  
Dekinesh, S. I. 47  
Dekker, A. 6608  
Del Bene, G. 5155, 10005, 12027  
Del Carlo, G. 12073  
Del Carmen Sánchez, M. 5463, 10725  
Del Cerro, A. L. 11237  
Del Cont Bernard, D. 3162  
Del Hoyo, N. 5339  
Del Moral, J. 6429, 6446-6448  
Del Pilar Hernández, M. 2862  
Del Re, A. A. M. 566  
Del Real, A. A. 5503  
Del Río, V. B. 10588  
Del Santo, C. 2894  
Del Tío, R. 6992, 6996, 7898  
Del Valle, J. I. 8907  
Del Vecchio, M. C. 3786, 3912, 4439  
Dela Cruz, M. P. A. 4988  
Delabie, J. H. C. 3085, 4678, 10910  
Delachambre, J. 2281, 11271  
Delalibera, I., Jr. 2507, 11702  
Deland, J. P. 4552  
Delaney, P. 11819  
Delaplane, K. S. 3093, 9448  
Delate, K. M. 11003  
Delatour, C. 7899  
Delatte, G. T. 9514  
Delbecque, J. P. 2281, 5854  
Delbeke, K. 11647  
Delcour, J. 5210  
Delden, W. van 3884  
Delécolle, J. C. 9738  
Delfinado-Baker, M. 11443  
Delfino, M. A. 3483  
Delgado, A. 1108, 9475  
Delgado, C. 9902  
Delgado, J. 8356  
Delgado, L. 4714, 11097  
Della Gatta, C. 10033  
Della Lucia, T. M. C. 1181, 3784, 4358, 5053, 7677, 8735  
Dell'Antone, P. 4235  
Dello Russo, C. 11242  
Delmas, J. C. 4193  
Delmore, L. R. K. 4076  
DeLoach, C. J. 821, 5716  
Delobel, A. 5776  
Delobel, B. 609



- Delorme, R. 8505  
 Deloya, C. 11086  
 Deltshv, C. 915  
 Delvare, G. 5171, 8092  
 Dely-Draskovits, Á. 812, 3681  
 DeMars, C. J., Jr. 777  
 Demayo, C. G. 6484-6485, 11246, 11740-11741  
 Dembski, M. 2958  
 Demchak, R. 2294  
 DeMers, M. N. 7252  
 Demers, P. 1371-1372  
 DeMilo, A. B. 4363, 4365, 7622, 7632, 10537  
 Deml, R. 4940, 10170  
 Demonte, A. M. 2165  
 Den Berg, C. van 5317  
 Den Berg, H. van 1626, 6427  
 Den Berg, J. van 3445, 6473  
 Den Berg, M. A. van 2579, 11918  
 Den Berghe, E. P. van 3080  
 Den Berghe, E. van 3110  
 Den Boer, P. J. 2644  
 Den Eijden, M. van 2083  
 Den Heuvel, J. F. J. M. van 3271  
 Den Meiracker, R. A. F. van 6180  
 Den Nijs, T. P. M. 703  
 Dendsay, J. P. 5587  
 Deneer, J. 6370  
 Deneer, J. W. 7586  
 Denell, R. 2948  
 Denell, R. E. 4018, 6001, 9245  
 Deneubourg, J. L. 3188, 5136, 7208, 11331  
 Deng, D. 7473  
 Deng, T. 10419  
 Deng, W. H. 4298  
 Deng, W. H. 8662  
 Deng, Y. H. 5272, 6820  
 Deng, Y. L. 8244, 11457  
 Deng, Y. X. 8026, 8125  
 Denga, N. 11622  
 Denholm, I. 4217, 5616, 7046, 11587  
 Denlinger, D. L. 2686, 7178  
 Denmark, H. A. 3762, 5520  
 Denmark, Landsudvalget for Planteavl 10060  
 Dennehy, T. J. 4271  
 Dennill, G. B. 8725  
 Dennis, B. 3479, 9343, 11358  
 Dennis, D. S. 4038  
 Dennis, N. J. 2338  
 Dennis, P. 1432, 5161  
 Dennis, R. L. H. 10073  
 Dennis, T. E. 4311  
 Dennison, M. 9906  
 Dennison, M. J. 8587  
 Denno, R. F. 7836, 8944, 9104, 9266  
 Densmore, K. J. 3651  
 Dent, D. 12098  
 Deo, P. G. 4233  
 Deogratias, J. M. 7976  
 Deol, G. S. 9673  
 Der Geest, L. P. S. van 8420  
 Der Horst, D. J. van 2083, 11199  
 Der Kleij, H. van 5234  
 Der Linde, T. C. de K. van 7871  
 Der Meulen, T. van 4545  
 Der Noll, I. E. van 5290  
 Der Reijden, E. D. van 5717  
 Der Wal, D. van 3417  
 Der Wel, C. van 2472  
 Der Wel, N. N. van 332  
 Der Werf, W. van 4561  
 Der Westhuizen, M. C. van 3445, 6473, 8678  
 Der Wilk, F. van 3271  
 Der Wolf, J. M. van 7417  
 Derksen, A. C. G. 4198  
 DeRonde, K. A. 9247  
 Derose, R. T. 9534  
 Derrick, M. E. 5070  
 Derridj, S. 11303  
 DeSalle, R. 926, 5988, 10076  
 Descamps, M. 9361  
 Descimon, H. 6011  
 Descoins, C. 4938  
 Desender, K. 203  
 DesGranges, J. L. 10628  
 Desh Raj 2590, 7236, 10388  
 Desharnais, R. A. 9343, 11358  
 Deshmukh, D. D. 6712, 8809  
 Deshmukh, P. B. 3584  
 Deshmukh, S. D. 8836, 8838  
 Deshpande, A. D. 11971  
 Deshpande, V. P. 2678  
 Deslippe, R. J. 817, 6152, 10360  
 Desmarchelier, J. M. 12070  
 Desmier de Chenon, R. 7866  
 Desroches, P. 6899  
 Detmers, H. B. 1771  
 Dettner, K. 1914, 4940, 5833, 7053, 7152, 7204, 9174, 10170, 11438  
 D'Ettorre, P. 5138  
 Detzel, A. 5898  
 Detzel, P. 10863  
 Deuse, J. 11537  
 Deutsch, W. A. 8122  
 Dev, D. V. 6712, 8809  
 Deva Prasad, V. 7550  
 Devaiah, M. C. 3258  
 Devakumar, C. 2818  
 Deval, R. 8683  
 Devasahayam, S. 810, 1734, 8962  
 Devauchelle, G. 6262  
 Deveau, P. 7609  
 Deventer, P. van 2543  
 Devi, K. S. 4315  
 Devi, N. 2590, 7236  
 Devi, P. S. V. 2600  
 Devilbiss, E. D. 3867  
 Devine, G. J. 4976  
 Devisetty, B. N. 875  
 Devkota, B. N. 10766  
 Devonshire, A. L. 3341, 4217, 4976, 5616, 7046, 9238, 11263, 11587  
 Devreese, B. 7068  
 Dewi, L. 11605  
 Dey, M. 5830  
 Dey, S. C. 839  
 Deyton, D. E. 8751  
 Dezélee, S. 11265, 11486  
 Dhaliwal, G. S. 6831  
 Dhaliwal, J. S. 1469  
 Dhanapala, M. G. 573  
 Dhandapani, N. 374, 710, 2184, 2404, 3411, 3609, 3666, 7892  
 Dhang, P. P. 3088  
 Dharam Singh 3593  
 Dharpure, S. R. 11894  
 Dhawan, A. 7560  
 Dhawan, A. K. 1634, 3622, 7894, 8839  
 Dhawan, P. K. 1446  
 Dhawan, S. 8526  
 Dhileepan, K. 3581  
 Dhillon, S. S. 4699  
 Dhillon, B. S. 6468  
 Dhillon, G. S. 11776  
 Dhillon, R. S. 6829  
 Dhiman, S. C. 6258  
 Dhingra, S. 7543, 7552, 11611  
 Dharendra Singh 2367  
 Dhital, B. K. 5472  
 Dhondt, A. A. 4696  
 Dhuri, A. V. 835  
 Dhurve, S. B. 3580, 3613  
 Di Chiara, S. R. 8058  
 Di Cola, G. 9405  
 Di Domenico, A. 4312  
 Di Guardo, A. 2700  
 Di Iorio, O. R. 3530, 4689, 7929  
 Di Leo, A. 11844  
 Di Marco, S. 10565  
 Di Orio, F. 2315  
 Di Perna, V. 2538  
 Di Pietro, J. P. 7654, 8636, 10692, 11719  
 Di Primio, R. 1255  
 Diab, F. M. 8281  
 Diamantidis, G. 1883  
 Diambo, B. le 8704  
 Diarra, A. 3477  
 Dias, J. M. C. S. 7450  
 Díaz, A. N. 10588  
 Diaz, B. M. 8419  
 Díaz, D. 5463  
 Diaz, E. 7472  
 Diaz, G. 4296  
 Díaz, M. 10686  
 Diaz, M. C. 2501  
 Diaz, S. 8849  
 Diaz-Aranda, L. M. 741  
 Diaz B., F. A. 250, 619  
 Díaz Díaz, R. 8491  
 Diaz-Durán, A. 7432  
 Díaz-Gómez, O. 447, 6256  
 Diaz-Knauf, K. 10478  
 Dib-Haji, S. D. 1003  
 DiBartolomeis, S. M. 9230  
 DiBenedetto, A. J. 8163  
 Dick, M. R. 8472  
 Dicke, M. 4354-4355, 4370, 5490, 6043, 9696, 10266, 10482, 11321, 11810  
 Dickens, J. C. 7517, 9703, 9957  
 Dickinson, M. H. 5881  
 Dickinson, W. J. 11137  
 Diehl, J. 4059  
 Diehl, K. E. 6470, 10722  
 Diehl, P. A. 5379  
 Diehl, R. E. 261  
 Diehl-Jones, W. 993  
 Dieckrügger, B. 6088  
 Diekmann, M. 6934  
 Dieleman, F. L. 9808  
 Dierauer, H. U. 10385  
 Dieringer, G. 4714  
 Dierkes, S. 7074  
 Dieter, C. D. 11612  
 Dietrich, C. H. 5975  
 Dietrichson, J. 9029  
 Dietz, B. H. 6055  
 Diffie, S. 2095  
 Digan, M. E. 1946  
 Digilio, M. 9237  
 Digilio, M. C. 205  
 Digweed, S. C. 223, 3050  
 Dijk, T. S. van 237  
 Dijken, F. R. van 6816  
 Dijkstra, S. 4087, 11196  
 Dik, M. T. A. 6816  
 Dikshit, N. 2443  
 Dikshith, T. S. S. 3365  
 Dilawari, V. K. 6831  
 Dilbaghjit Kaur 7091  
 Dill, J. F. 5538  
 Dillard, H. R. 6907  
 Dillon, R. J. 11502  
 Dillon, T. M. 1379  
 Dillwith, J. W. 9688  
 Dilo, C. C. 11906  
 Dimetry, N. Z. 11696  
 Dimic, N. 6466  
 Dimitriadis, G. 8234  
 Dimitriadis, V. K. 11473  
 Dimitrievits, G. 3170  
 Dimitrov, V. 8404  
 Dimitrova, Z. 325  
 Din, X. 11963  
 Dindo, M. L. 11565  
 Ding, H. J. 10689  
 Ding, K. X. 8692  
 Ding, Q. X. 559  
 Ding, T. 10419  
 Ding, T. H. 1173  
 Ding, Y. 7109, 7465  
 Ding, Y. Q. 8630, 10711  
 Dingle, H. 3801, 5993  
 Dingle, H. D. 186  
 Dingman, D. W. 5219  
 Dinham, B. 1386  
 Diniz, I. R. 3014, 11346  
 Diniz Filho, J. A. F. 3938, 5130  
 Dinkins, R. L. 2122  
 Dinter, A. 1423, 7571  
 Diadato de Medina, L. 2647  
 Diop, B. 4079  
 Diop, T. 1976  
 Dios, G. 5292  
 Dippel, C. 1650  
 Dippenaar-Schoeman, A. S. 923, 2579  
 Diraviam, J. 7863  
 Dircksen, H. 5919  
 Dirks, R. W. 1240  
 Dirzo, R. 3696  
 Disney, R. H. L. 3206, 5699, 7358, 9078, 9090  
 Dittmann, F. 3225, 11161  
 Dively, G. P. 2479  
 Dix, I. 10456  
 Dixit, B. S. 7990, 10815  
 Dixit, R. 9521  
 Dixit, V. 1732, 3675  
 Dixon, A. F. G. 878, 951, 1992, 3813, 3942, 5027, 5078, 5387, 5535, 8108, 8250, 11720  
 Dixon, D. G. 2301  
 Dixon, F. G. 5037  
 Dixon, G. 381  
 Dixon, J. E. 5002  
 Dixon, R. K. 5676  
 Dixon, W. N. 404, 3640  
 Djieto-Lordon, C. 4682  
 Djordječić, S. 11187  
 Dlott, J. W. 654, 3539  
 Do Nascimento, E. C. 1660, 3639, 7159  
 Do Nascimento, F. N. 4384, 4586  
 Do Nascimento, R. R. 4973  
 Doane, W. M. 426  
 Dobbelsstein, R. T. J. M. 7564  
 Dobler, S. 214  
 Dobos, P. 6253  
 Dobson, H. M. 7324  
 Dodd, R. J. 4749  
 Dodds, K. A. 2556  
 Dodds, K. G. 2478  
 Dodia, D. A. 2496, 5754, 10776  
 Dodia, J. F. 4029  
 Dodo, Y. 4119  
 Dodson, G. N. 7183  
 Dodson, S. I. 6371  
 Doğanlar, M. 901  
 Doggett, C. A. 7943  
 Doghum, S. M. 2323  
 Doguet, S. 742  
 Doharey, R. B. 846  
 Doherty, K. 10339  
 Dohle, W. 1875  
 Dohlen, C. von. 4981  
 Dohmen, R. 954  
 Doira, H. 194  
 Dolbeer, R. A. 448  
 Dolci, M. 2300  
 Dolek, M. 3174  
 Dolinskaya, I. V. 3789  
 Doll, M. 1725  
 Dollar, D. A. 8145  
 Domagala, T. 1280-1281, 1286  
 Domek, J. M. 11795  
 Domenichini, P. 2387, 11570  
 Domenico, A. di 4312  
 Domiciano, N. B. 3621, 4504-4505, 8736  
 Domingo, I. T. 11740-11741  
 Dominguez, A. 7130  
 Domoto, P. A. 9844  
 Domouhtsidou, G. P. 11473  
 Donahaye, E. 6912  
 Donahaye, E. J. 6037  
 Donahue, J. P. 1151, 8306  
 Donald, W. W. 2755  
 Donázar, J. A. 3382  
 Dondi, C. 12073  
 Dong, C. X. 10917  
 Dong, F. Q. 10917  
 Dong, H. 6449  
 Dong, J. X. 3097  
 Dong, K. 8494  
 Dong, W. 8425  
 Dong Ke 8494  
 Dongen, S. van 4696  
 Dongen, W. D. van 10505  
 Dongsheng, W. 12048  
 Donker, M. H. 1306, 3739  
 Donnelly, P. J. 2106  
 Donner, R. B. 5237  
 Donner, R. L. 7038



Donohue, D. C. 10566  
Donovan, S. 2278  
Doodeman, C. J. A. M. 9543  
Doolittle, R. E. 1530, 8141, 9653  
Doorn, J. M. van 2083  
Doornkamp, A. 9543  
Doostdar, H. 9888  
Doré, T. 9758  
Dorenskaya, G. M. 4253  
Doretta, L. 11766  
Dorfman, M. 2951  
Dorier, A. 3138  
Dormanns-Simon, E. 11033  
Dorn, A. 7621  
Dorn, S. 7209  
Dornan, A. P. 4515, 9784, 10800  
Dorontić, S. 3509  
Dorp, A. G. M. van 1240  
Dorp, D. van 2644  
Dörr, I. 2757  
Dorrian, S. J. 10411  
Dos Anjos, N. 5635  
Dos Reis, O. V. 2431  
Dos Santos, G. M. T. 4754  
Dos Santos, R. A. 3878  
Dos Santos, W. J. 3621  
Dossou-Gbete, S. 8712  
Doube, B. M. 4024  
Douben, P. E. T. 1376  
Douce, G. K. 2653  
Doucet, J. L. 7734  
Doucet, M. M. A. de 379, 9522  
Doughty, S. C. 2719  
Douglas, A. E. 967, 3810, 5859, 11770  
Douglass, L. W. 8886  
Dougll, J. 1356  
Doumandji, S. 275, 9362  
Doumandji-Mitiche, B. 275, 9362  
Doumbia, L. 8351  
Doumbia, Y. O. 7685  
Douro-Kpindou, O. K. 7427, 10791  
Doury, G. 5169, 10369  
Doutt, R. L. 881  
Dover, B. A. 1989, 8112  
Dover, J. W. 7238  
Dow, J. A. T. 5901  
Dow, L. C. 4834  
Dowd, P. F. 3414, 4030, 4214, 4229, 9699, 10715  
Dowds, B. C. A. 9490  
Dowdy, A. K. 4808, 6871, 9009  
Dowell, R. V. 2210, 2540, 4009, 4031, 5064, 5067  
Dowling, K. C. 413  
Dowman, A. 578  
Downer, J. A. 6754  
Downer, R. A. 273, 3156, 7519  
Downer, R. G. H. 433, 1912, 4237, 5857, 6189  
Downes, M. J. 378, 10455  
Downie, D. 3325  
Downing, H. A. 4097  
Downman, A. 10637  
Downs, P. R. 8816  
Downum, K. R. 10018  
Downton, M. 8049  
Doyle, P. 11756  
Doza, Y. N. 8153  
Draganić, M. 6460, 6464, 6466  
Draghetti, L. 10565  
Drähn, B. 5929  
Drake, C. M. 8073  
Drake, V. A. 2002  
Draney, M. L. 57  
Dray, F. A., Jr. 3694  
Drayton, A. W. 8763  
Drees, B. M. 6153  
Dreisig, H. 5057  
Dreistadt, S. H. 2671, 6928, 8864, 8940, 8943, 11996  
Drescher, W. 8360  
Dretzen, G. 10218  
Dreux, P. 8301  
Drevet, J. R. 11162  
Drew, M. E. 3873  
Drew, R. A. I. 6945, 6967, 9084, 11011  
Drews, F. W. 1429, 5411, 7661  
Dreyer, H. 6547, 6549  
Drezen, J. M. 5170  
Driesang, R. B. 10183  
Driesche, R. G. van 4212, 7753  
Driessen, G. 7345  
Drinkwater, T. W. 4415  
Driss, M. R. 10634  
Drobne, D. 10177, 10502  
Drosopoulos, S. 1603  
Drummond, C. J. 2370  
Drummond, D. C. 3673  
Drummond, F. A. 4540-4541  
Drury, C. F. 8732  
D'Souza, C. 11887  
Du, A. T. 7671  
Du, X. F. 7711  
Du, X. G. 644  
Du, Y. J. 8154, 10245  
Du, Y. Z. 2620  
Du, Z. W. 7493  
Du Plessis, D. 4548, 5522-5523  
Du Preez, R. 6690  
Du Preez, R. J. 799  
Du Toit, A. P. 659, 10872  
Du Toit, F. 7651  
Du Toit, W. J. 667, 3563, 10888, 10890  
Dua, A. 10591  
Duan, B. 387  
Duan, C. L. 5093  
Duan, H. H. 7887  
Duan, J. J. 6636, 9569, 9841  
Duan, L. X. 9935  
Duarte, A. 1336, 1690  
Dube, S. N. 10578  
Dubey, O. P. 9298, 9341  
Dubis, E. 4974  
DuBois, B. R. 7972  
Dubois, D. 6558  
DuBois, M. B. 7972  
Dubois, N. 4210  
Dubón, A. 8825  
Dubrovsky, E. 10218  
Duc, G. 6899  
Ducey, J. G. 8590  
Ducharme, D. 5636  
Duck, N. B. 7514  
Duckett, C. 10044  
Ducroquet, J. P. H. 1544, 4603, 4605  
Ducrot, P. H. 4938, 10167  
Dudley, R. 192  
Dueben, B. D. 3909, 7891, 11693  
Dueszeln, J. von 422  
Duffey, E. 11333  
Duffey, S. S. 5504  
Duffield, S. J. 4389, 10691  
Duffus, J. E. 6595  
Duffy, M. D. 9844  
Duffy, P. A. 2642  
Duffy, W. G. 11612  
Dufour, E. 7626  
Dufrêne, M. 11988  
Dugdale, J. 4464  
Dugdale, J. S. 402, 8068  
Duhra, M. S. 8815, 11948  
Duinker, J. C. 7575  
Dukes, P. D. 5482  
Dülge, R. 6998  
Dulić, K. 1539  
Dulinafka, G. 2235, 9872  
Duman, J. G. 5063  
Dumanoir, V. C. 2181  
Dumas, C. 3339  
Dumbre, R. B. 5569, 6837, 8749  
Dumont, S. 9791  
Dumont d'Urville, J. S. C. 905  
Dumouchel, L. 4823  
Dunavskii, A. G. 2407  
Duncan, D. 5969  
Duncan, D. R. 9713  
Duncan, F. D. 3184, 5081  
Duncan, G. H. 5534  
Duncan, I. 5969  
Duncan, K. W. 4861  
Duncan, M. W. 6742  
Duncan, R. 11897  
Duncan, R. E. 2239  
Duncan, R. W. 6803  
Duncan, T. 10208  
Dungan, L. B. 4250  
Dunham, M. 7296  
Dunier, M. 8545  
Dunkel, F. V. 4479, 5741, 9010, 10053  
Dunkelblum, E. 2564, 2574, 6669, 11695, 12009  
Dunkov, B. C. 9161  
Dunlap, J. M. 7919  
Dunn, R. L. 6523  
Dunphy, G. B. 1247, 4190, 9503, 11509  
Dunstan, H. M. 2974  
Dunster, K. 818  
Duo, X. Y. 7229  
Dupont, A. 1916  
Dupont, P. 12086  
Dupree, H. E., Jr. 4342  
Duque, M. 3475  
Duque, M. C. 3474, 11742  
Durai, P. S. S. 3531, 5686  
Durairaj, C. 3455  
Durand, G. 495, 7520  
Durand, J. L. 8683  
DuRant, J. A. 11969  
Durston, L. A. 3047  
Dureja, P. 1311  
Durhan, E. J. 10653  
Durkin, A. F. 5867  
Durner, E. F. 5530  
Đurović, Z. 1680  
D'Urso, V. 66  
Durst, T. 11701  
Dušanić, L. 1679  
Dusi, A. N. 6544  
Duso, C. 2335  
Dussourd, D. E. 9807  
Dutcher, J. D. 4318, 4610, 8798  
Dutt, P. A. K. 9595, 9627  
Dutta, G. R. 9459  
Dutta, H. M. 2284-2285, 5313, 9459  
Dutta, J. 11245  
Dutta, P. 10016  
Dutta, S. K. 9884  
Dutton, A. J. 10645  
Duwadi, V. R. 809, 10766  
Dvergsten, C. 8518  
Dwarakinath 7375-7376  
Dweikat, I. 9683  
Dwivedi, S. C. 6894  
Dwyer, G. 8860, 10942  
Dwyer, L. M. 4417  
D'yakonov, K. P. 6560  
Dyatlova, K. D. 2429  
Dybas, L. K. 1893  
Dybas, R. A. 9999, 11849  
Dybwad, E. 11997  
Dyck, V. A. 8664  
Dyer, L. A. 8262  
Dyer, M. I. 1651  
Dykstra, T. M. 11285  
Dymock, J. J. 1468, 6613  
Dynlacht, B. D. 2958  
Dysart, R. J. 9431  
Dyson, N. 2958  
Dyte, C. E. 7290  
Dzhemilev, U. M. 519  
Eadsforth, C. V. 10645  
Eapen, S. J. 7988  
Eardley, C. D. 2585, 10948  
Earle, E. 9521  
Earle, E. D. 3525  
Earley, F. G. P. 4350  
Earmshaw, W. C. 1931  
East, D. A. 8727  
Easter, E. 1351  
Easter, E. P. 1354  
Eastman, C. E. 9692  
Easton, C. S. 2274-2275, 6319  
Easton, E. R. 7327  
Eastop, V. F. 2865, 8079  
Easwaramoorthy, S. 2222  
Eaton, D. 1372  
Eaton, D. L. 1371  
Eaton, J. L. 6056  
Ebbert, M. A. 1439, 7459  
Ebeling, W. 1760  
Ebenet, R. 989, 8110  
Eberhard, W. G. 936, 2001, 7220  
Ebersohl, R. 7094  
Ebert, B. J. 8537  
Ebert, G. 1577  
Ebert, K. 4116  
Eberwine, J. W., Jr. 10721  
Ebora, M. M. 4492  
Ebora, R. V. 4492  
Ebuenga, M. D. 5113  
Ecale, C. L. 3984, 10750  
Ece, H. 1317  
Echendu, T. N. C. 5483  
Echevarria, A. 6571  
Echeverria, N. E. 2693  
Echt, C. 6523  
Eck, G. T. M. van 8589  
Eck, R. 1161  
Eckberg, T. B. 4465, 8874  
Eckel, C. S. 9279, 9809  
Eckel, G. 1228, 2394  
Eckert, M. 121  
Eckert, S. 1491  
Edelson, J. V. 8727  
Edgecomb, R. S. 6042  
Edgell, K. W. 4067  
Edirisinghe, J. P. 1211, 10328  
Edison, S. 3678  
Edland, T. 1391, 9831  
Edlund, H. 10188  
Edman, S. J. 10595  
Edrisha, M. S. 3346  
Edward, S. L. 5750  
Edward, Y. S. J. T. 2459, 7696, 11052  
Edwards, C. F. 2171  
Edwards, G. B. 3045  
Edwards, G. C. 4964  
Edwards, J. P. 11209, 11213  
Edwards, J. S. 2013  
Edwards, M. 7295  
Edwards, M. A. 11055-11061, 11136  
Edwards, M. H. 4271  
Edwards, O. R. 9381  
Edwards, P. B. 8871  
Edwards, P. J. 5505, 11009  
Edwards, R. L. 3078  
Edwards-Jones, G. 3029  
Eeden, C. F. van 4632-4633, 6714, 7871, 8810  
Eeken, J. 5015  
Eeswara, J. P. 4764  
Efe, E. 10609  
Efetov, K. A. 9059-9060  
Efimova, G. G. 2554  
Efinger, R. 4946-4947  
Efirat, C. 334  
Egaas, E. 5352, 11179  
Egelhaaf, A. 5974  
Eggenberger, F. 998, 3860  
Eggert, A. K. 9300  
Eggleston, D. S. 349  
Eggleston, P. 6911  
Eggleston, P. 5900  
Eglite, G. 3260  
Eguchi, E. 7084  
Eguchi, M. 9162, 11181  
Eguchi, T. 3320  
Egwuatu, R. I. 1498  
Ehara, S. 2036, 5838, 10107  
Ehrlinger, J. R. 10289  
Ehlers, A. U. 7402  
Ehlers, R. U. 2178, 2204, 7403-7406, 7408, 7415, 7830  
Ehmann, W. J. 4780, 5048  
Ehmke, A. 998  
Ehrhardt, E. 3674  
Ehrig, F. 8624  
Ehrlein, J. 8950-8951  
Ehrlich, P. R. 2024, 3913, 3923, 8264, 8852, 10235  
Ehrlich, R. I. 8544  
Ehrman, L. 10429  
Eiberle, K. 2645  
Eichenberg, D. C. 4313  
Eichenseer, H. 3841, 9197, 10681  
Eicher, T. 6827



- Eichhorn, O. 5022  
 Eichlin, T. D. 253, 8081  
 Eickbush, D. G. 1043, 5961  
 Eickbush, T. H. 1043, 1048, 1936, 5961  
 Eidt, D. C. 7615, 12099  
 Eigenbrode, S. D. 635, 1412, 4526, 7790, 9544  
 Eijnden, M. van den 2083  
 Eijssackers, H. 7379  
 Eikenbary, R. D. 4611, 6443, 9906  
 Eilenberg, J. 7435, 7767, 7777, 10435, 10445  
 Einhorn, J. 5673, 6120  
 Einspanier, R. 7361  
 Eiras, A. E. 4076, 8734  
 Eisenberg, R. J. 2080  
 Eisenberg, R. M. 210, 226, 10382  
 Eisenreich, S. J. 3390  
 Eisenstark, A. 9149  
 Eisler, D. 9968  
 Eisner, M. 3826  
 Eisner, T. 69, 1889, 2000, 2916, 3062, 3674, 3826, 4125, 4895, 9180, 9201, 10166  
 Eissenberg, J. C. 1931  
 Eitschberger, U. 5823  
 Eizaguirre, M. 2427, 7634  
 Ejiri, S. 5195  
 Ekbohm, B. 389, 586, 4396, 5416, 10262  
 Ekk, I. 6927  
 Ekker, M. 459  
 Eklo, O. M. 2376, 5366-5367, 10661  
 Ekström, G. 2822  
 Ekukole, G. 6734  
 El-Agoze, M. 9135  
 El-Barouty, G. 1349  
 El-Bashir, E. S. 9179  
 El-Bashir, S. 5710, 6044  
 El-Baz, F. K. 8959  
 El-Bishry, M. H. 2396  
 El-Bolbol, H. 7441  
 El-Borolossy, M. A. 10949  
 El-Din, A. N. 10444  
 El-Din, M. M. 6244, 8959  
 El-Feghaly, E. 1899  
 El-Ghar, A. 2259  
 El-Ghar, G. E. S. A. 9771  
 El-Ghareeb, A. M. 3361  
 El-Guindy, N. 7441  
 El-Hadi, F. A. 11208  
 El Hag, E. A. 5259  
 El-Halfawy, N. A. 1272  
 El-Hamaky, M. A. 8737  
 El-Hamid, M. M. A. 676  
 El-Hamlauwi, M. 7532  
 El-Husseini, M. 1715, 7442  
 El-Itriby, H. A. 3387  
 El-Kady, I. A. 6376  
 El-Khawass, K. A. M. H. 11836  
 El-Kifl, T. A. H. 2396  
 El-Lissy, O. 3620  
 El-Maghraby, M. M. A. 456, 1633  
 El-Malky, K. 8738  
 El-Maraghy, S. S. M. 6376  
 El-Meslaty, M. 5458  
 El-Metwally, H. E. 11696  
 El-Salam, A. M. E. A. 11696  
 El-Sarrag, M. S. A. 1198  
 El-Sayed, A. E. M. 9771  
 El-Sayed, G. N. 6226  
 El-Sayed, M. A. 2363  
 El-Sebae, A. H. 1349  
 El-Sewedy, S. M. 4320  
 El-Shahaat, M. S. 3346  
 El-Shanshoury, A. R. 2363  
 El-Sharkawy, A. M. 4320  
 El-Shazly, E. 3498, 6899  
 El-Sherbeny, K. M. 5307  
 El-Sherif, S. I. 3064-3065  
 El-Sheikh, A. E. 9771  
 El-Tantawy, M. A. 456, 1633  
 El Tayeb, A. 5259  
 El-Toukhy, M. A. 2331  
 El-Wakil, H. B. 435  
 El-Zik, K. M. 2630  
 El-Zoghby, S. M. 4320  
 Elazegui, F. A. 3457  
 Elbersson, L. R. 7649  
 Eldefrawi, M. E. 9616  
 Elden, T. C. 10756  
 Eldridge, R. 5227  
 Elegami, A. A. B. 6313  
 Elek, J. A. 1332, 3799  
 Elgin, S. C. R. 1931  
 Elgueta D., M. 5660  
 Elhaj, B. 9667  
 Elias, M. 3707  
 Eliazar, P. J. 7223  
 Elkinton, J. S. 3290, 4687, 10491, 10942  
 Ellar, D. J. 3265, 3275, 8407, 11495  
 Eller, A. 8787  
 Eller, F. J. 10136  
 Eller, K. I. 9393  
 Elliger, C. A. 5372, 6393  
 Ellington, J. 3222  
 Elliott, C. 11392  
 Elliott, J. E. 2328, 8550, 10628  
 Elliott, J. M. 10280  
 Elliott, L. M. 4779  
 Elliott, N. B. 4779  
 Elliott, N. C. 1218, 4401, 4510, 6183, 6428, 8633, 9674, 11725, 12098  
 Ellis, D. R. 4041  
 Ellis, M. S. 7903  
 Ellis, P. R. 9805  
 Ellis, W. N. 3017, 10377  
 Ellis-Adam, A. C. 3017, 10377  
 Ellison, A. M. 722  
 Ellsberry, M. M. 2423, 4419, 4461  
 Ellsworth, D. S. 2674  
 Elmegaard, N. 2409  
 Elmer, P. A. G. 5546  
 Elmer, W. H. 10814  
 Elmes, G. A. 2656  
 Elmes, G. W. 4081  
 Elmore, J. S. 8949  
 Eloffsson, R. 120  
 Elphick, M. R. 5911  
 Elsaadany, G. 7356  
 Elsayi, S. A. 8241  
 Else, G. R. 3074  
 Elsey, K. D. 2524, 4107, 5509, 10806  
 Elsner, N. 8157, 9193-9194  
 Elson, S. 5964  
 Ely, C. B. 5756  
 Elzen, G. W. 4256, 5111, 9584, 9958  
 Elzinga, R. J. 6158  
 Emadi Konjin, H. P. 3281  
 Emam, A. K. 633  
 Emberson, R. M. 905, 1159  
 Embree, D. G. 9525  
 Emden, H. F. van 540, 4404, 4407, 8365, 8949, 10550, 11532  
 Emehute, J. K. U. 1498, 5483  
 Emeljanov, A. F. 8316  
 Emery, S. B. 3866  
 Emery-Goodman, A. 4925  
 Emmanouel, N. G. 4858, 5643  
 Emmel, T. C. 3933, 4049, 7223, 11159  
 Emmerich, R. 2740, 8610  
 Emmett, R. W. 10869  
 Emori, Y. 164  
 Emura, K. 10494  
 Encily, M. R. 6235  
 Enderlin, F. E. 1946  
 Endris, J. J. 4604  
 Ene, A. 6389  
 Engel, M. S. 4922  
 Engel, V. R. 4124, 6667  
 Engelke, M. C. 4453  
 Engels, W. 3225, 8359  
 Engels, W. R. 8226  
 Engloff, H. 41, 1875, 7265  
 Engler, D. L. 9188  
 Englert, W. D. 8774  
 English, L. 7453  
 English, L. H. 7454  
 English-Loeb, G. 11875  
 Engstrom, L. 5836  
 Engstrom, Y. 1005  
 Enkegaard, A. 1714, 4760  
 Enkerlin, W. 5374  
 Ennis, I. L. 6613  
 Enobakhare, D. A. 6841  
 Enriz, R. D. 6404  
 Entomological Knowledge 7510  
 Entz, T. 8679, 9744  
 Enz, J. W. 1109  
 Epenhuijsen, C. W. van 6597  
 Epino, P. B. 5696-5697  
 Epp, P. 6642  
 Epperlein, K. 1772  
 Eppert, F. 1123  
 Epsky, N. D. 673, 1572, 3909, 4364, 4366, 5547  
 Epstein, M. E. 4895  
 Epstein, S. S. 481  
 Equbal Ahmad, M. D. 10886  
 Eraky, S. A. 3215, 3550  
 Erazo G., A. L. 5031  
 Erb, W. A. 4524  
 Erdélyi, C. 4458  
 Erexxon, G. L. 496  
 Erhardt, A. 8934  
 Eriksson, G. 5671  
 Eriksson, M. 8967  
 Erkilic, L. 1277  
 Erlandson, M. 9505  
 Erlandson, M. A. 6144, 8177  
 Ermini, P. 11853  
 Ernst, B. 7080  
 Ernst, G. H. 4666  
 Ernst, W. 4321  
 Ernst, W. J. 5233  
 Errard, C. 3952, 5126  
 Erwin, T. L. 4822  
 Esaki, K. 7155  
 Esau, K. L. 4361  
 Escalada, M. M. 7702  
 Escalante Rebollo, E. 1708  
 Eschbach, U. 1914  
 Escobar, D. E. 4550  
 Escobar, J. A. S. 5090, 5096  
 Escoubas, P. 803-804, 5281, 5369  
 Escrache, B. 4172, 6248, 9500  
 Eshel, A. 5568  
 Eskov, K. Y. 12102  
 Eslava, P. E. 3388  
 Esnard, J. 3149  
 Espadaliere, X. 2096  
 Espelie, K. 10204  
 Espelie, K. E. 2426, 2434, 4475, 6198, 7193, 9544, 9981  
 Esperandieu, P. 6262  
 Esperson, J. R. 5051  
 Espiau, A. 353  
 Espinosa Flores, A. 1707  
 Espinosa-Mansilla, A. 6110  
 Esposito, A. 5368  
 Esposito, M. C. 2858  
 Esquivel, J. F. 1096  
 Essamet, M. 6555  
 Essler, H. 1858  
 Estabrooks, E. N. 9856  
 Esteban-Durán, J. R. 7868  
 Ester, A. 6137, 11723  
 Estes, P. S. 11242  
 Estiarte, M. 4534, 5508  
 Estrada S., E. I. 7791  
 Etienne, J. 251  
 Etkin, E. 10409  
 Eto, M. 1324, 6295, 8119, 8121, 11680  
 Eitten, J. L. van 6253  
 Eubanks, M. 2408  
 Europe, European Association for Potato Research 872  
 European and Mediterranean Plant Protection Organization 4282-4283, 6905-6906, 9700, 10046-10052, 10788, 10812, 10860, 10862, 10864  
 European Association for Potato Research 865  
 Evangelou, P. 2778  
 Evans, A. A. 6502, 6521, 6525, 7322  
 Evans, B. 2248  
 Evans, E. W. 4786, 8681  
 Evans, G. A. 10135, 11078, 11445  
 Evans, G. M. 2094, 2099  
 Evans, I. L. 2248  
 Evans, H. E. 10, 9292  
 Evans, H. F. 770, 871  
 Evans, H. J. 2651  
 Evans, K. A. 522, 4616, 7775  
 Evans, P. D. 281, 5908  
 Evans, P. H. 6399  
 Evans, S. W. 11610  
 Evans, W. F. 7757  
 Evenden, W. G. 5118  
 Evenhuis, N. L. 40, 9086  
 Evequoz, M. 2547  
 Everaerts, C. 5854  
 Everitt, J. H. 4550  
 Eversham, B. C. 6101  
 Every, D. 3432  
 Evidente, A. 684  
 Evsyukov, N. A. 3164  
 Ewadinger, N. M. 355  
 Ewell, P. T. 3506  
 Ewin, C. 5410  
 Ewins, P. J. 4306  
 Extension Bulletin - Cooperative Extension, College of Agriculture & Home Economics, Washington State University 1550  
 Eyal, J. 4157, 5211, 8443  
 Eyörgy, D. 10846  
 Eyre, M. D. 5074  
 Eyster, R. S. 1097  
 Ezoe, H. 9108  
 Faan, H. C. 617  
 Faas, G. 286  
 Fabbri, R. 6881  
 Fabellar, L. T. 2455, 2464  
 Fabellar, N. G. 2455  
 Fábian, M. 3351  
 Fabriás, G. 2919, 3831, 3833, 9204  
 Facchetti, S. 4312, 4336  
 Faccioli, G. 11853  
 Facciponte, G. 11211  
 Facknath, S. 8960  
 Facundo, H. T. 5376, 6815  
 Fadamiro, H. Y. 9312  
 Faeth, S. H. 1664  
 Fagan, W. F. 210, 4035  
 Fager, K. 8731  
 Fägerhag, J. 10188  
 Fagnani, A. 8937  
 Fagnani, F. 9851  
 Fagundes, M. 6367  
 Faheemah, S. 637  
 Fahim, M. A. 2393  
 Fahrbach, S. E. 4955, 10196  
 Faini, F. A. 8598  
 Fainia, F. 5381  
 Fair, J. M. 9608  
 Fairbairn, D. J. 9296  
 Fairbrother, A. 6372  
 Fairchild, W. L. 7615  
 Faivre, M. 6134  
 Faivre d'Arcier, F. 4564-4565  
 Fajak, R. C. 3630  
 Fakhr, I. M. I. 6298  
 Falandysz, J. 3360, 3367, 5328, 5343  
 Falchieri, D. 9571  
 Falchini, L. 9439  
 Falco, J. V. 2612  
 Falconer, R. L. 500  
 Fales, A. J. 4900  
 Faliex, E. 8413  
 Falk, B. W. 11910  
 Falk, S. J. 11130  
 Falkenberg, I. D. 4311  
 Famiglini, G. 1171  
 Fan, A. M. 2321  
 Fan, C. L. 10331  
 Fan, F. S. 8668  
 Fan, G. H. 2640  
 Fan, J. A. 9887  
 Fan, T. S. 9618  
 Fan, W. G. 8857  
 Fan, W. M. 8675  
 Fan, X. H. 11521



Fan, X. L. 4245  
Fan, Y. 8746  
Fan, Y. L. 6245, 9168  
Fan, Y. Q. 4103  
Fan, Z. L. 412  
Fanara, J. J. 2947, 9256, 10237  
Fang, D. F. 12038  
Fang, D. J. 3253  
Fang, M. N. 2492  
Fang, N. 8141, 9176, 10161  
Fang, Q. Q. 10098, 11083-11084  
Faniran, O. O. 608, 8957  
Fano, H. 3506  
Fanti, L. de 7804  
FAO 11385-11386  
FAO Plant Production and Protection Paper 3345, 6904  
FAO Plant Protection Bulletin 6682  
Farag, A. I. 4360  
Farag, M. G. 2323  
Faraji, F. 9352  
Fard, P. A. 3514  
Farced, A. 554, 1444  
Fares, H. 8211  
Fargahly, A. 5602  
Fargette, D. 11796  
Fargo, W. S. 6877  
Fargues, J. 2194, 4193, 9479  
Faria, M. R. de 8332, 8419  
Farias, A. M. I. de 9676  
Farías-Larios, J. 8779  
Farida, S. 2489  
Farina, W. M. 8273  
Farinelli, D. 11390, 11918  
Farji Brener, A. G. 9308  
Farmer, M. S. 8557  
Farnham, A. W. 11589  
Farnham, M. W. 2524, 10806  
Farnsworth, E. J. 722  
Farooqui, M. 4004  
Farquhar, A. L. 11262  
Farr, C. L. 11262  
Farrar, R. R., Jr. 6259  
Farrell, J. A. 6269, 12098  
Farrow, R. A. 5641, 6752  
Farnzeh, A. 3548  
Fasce, D. 2720  
Fashing, N. J. 5751  
Fasulati, S. R. 2504  
Fathpour, H. 2932, 7337  
Faticienti, F. 6862  
Fatland, C. L. 5936  
Faulder, R. J. 1546, 7822  
Faulkner, P. 4170, 6255  
Fauquet, C. 11796  
Faust, M. 5319  
Fava, A. 10058  
Favaro, A. 9517  
Faveri, S. de. 1527  
Favero, S. 1392  
Favia, G. 4995  
Favretto, M. R. 9843  
Fawcett, P. K. S. 6742  
Fawcett, R. S. 2369  
Fay, H. A. C. 660, 790, 800, 5708  
Fay, P. A. 7718  
Faye, I. 145  
Fazeli, M. J. 3548  
Fazolin, M. 1409  
Feber, R. E. 7243  
Febles González, E. J. 8491  
Febvay, G. 5862, 9215, 11564, 11566  
Fecker, B. 9993  
Feder, J. L. 7813  
Federici, B. A. 8437  
Fédère, G. 1598, 7441-7442, 10444  
Fedoseeva, E. A. 3252  
Fedotova, Z. A. 5094  
Fedyshin, B. M. 6420  
Feener, D. H., Jr. 3191, 7110, 10152  
Feeny, P. P. 10010  
Fehlbaum, P. 8117  
Fehrenbach, H. 10132  
Feicht, E. 9294  
Feil, R. 5242  
Feinsinger, P. 2102  
Feldhege, M. 11877  
Feldhege, M. von 2575  
Feldlaufer, M. F. 8175, 9209  
Feldman, S. R. 6846  
Feler, T. 2026  
Felipe Barnola, L. 6786  
Felix-Gastelum, R. 7783  
Fell, R. D. 3926  
Felland, C. M. 588, 6635, 6640, 9838, 11846  
Felton, G. W. 3818, 3863, 9150, 9347  
Fénéron, R. 11324  
Feng, G. H. 7878  
Feng, G. L. 8507  
Feng, H. Y. 11525  
Feng, L. 2233, 9553  
Feng, M. G. 6221, 6433, 7649  
Feng, P. Z. 559  
Feng, Q. 4649  
Feng, S. L. 11521  
Feng, X. 9001, 10548  
Feng, X. H. 277  
Feng, Y. 3254  
Feng, Z. X. 7764  
Feniuk, R. P. 10431  
Fenlon, J. 9445  
Fenlon, J. S. 6179, 7414  
Fenner, M. 11009  
Fensham, R. J. 5637-5638  
Fenske, R. A. 10623  
Fenton, B. 7827  
Fenton, I. G. 578, 10637  
Ferenz, H. J. 11208  
Ferguson, C. 1405  
Ferguson, C. M. 2217, 6502, 6521, 6525, 6579  
Ferguson, C. S. 4176, 4687, 9746  
Ferguson, G. 2537  
Ferguson, H. J. 6056  
Ferguson, P. W. 4316, 7580  
Ferguson, W. 3623  
Ferkovich, S. M. 11225  
Fermaud, M. 5546, 8777  
Fernandes, F. M. 2486  
Fernandes, G. W. 2727, 3306-3307, 3647, 7499, 11340  
Fernandes, J. B. 6769  
Fernandes, O. D. 9275  
Fernandes, P. M. 7840  
Fernandes, W. D. 7897  
Fernández, A. 1690  
Fernández, C. 11395  
Fernández, M. A. 466-467, 3382, 5345  
Fernández, M. I. 11662  
Fernández, R. 466  
Fernández, S. A. 7786  
Fernandez Alba, A. 5361  
Fernández-Alba, A. R. 4068, 9395  
Fernández-Badillo, A. 1108  
Fernández-Casalderrey, A. 1369, 4287, 4305  
Fernandez-Cornejo, J. 6385  
Fernández Haeger, J. 5052  
Fernandez Haeger, J. 1743  
Fernández-Iglesias, F. 3066  
Fernández Muíño, M. A. 8572  
Fernández-Muñio, M. A. 9601  
Fernández Muíño, M. A. 10605  
Fernández-Otero, M. P. 6351  
Fernández-Pedrosa, V. 1951  
Fernández Pérez, A. M. 6391  
Fernandez Valiela, M. V. 11077  
Fernando, G. J. P. 11258  
Fernig, D. G. 5867  
Ferragut, F. 2131, 5156, 6966  
Ferran, A. 9127  
Ferrando, M. D. 1368-1369, 2333, 4287, 4305, 7559  
Ferrar, P. 11544  
Ferrara, F. 2040  
Ferrari, R. 2111, 2480, 5525, 11833  
Ferrari, S. 5236  
Ferrario, P. 11703  
Ferraro, S. P. 3377  
Ferre, J. 4172, 6248, 9500  
Ferreira, A. 5973  
Ferreira, C. 3817, 7044, 11180  
Ferreira, C. M. 5213  
Ferreira, E. 3476, 9721  
Ferreira, G. W. S. 9042  
Ferreira, M. A. 6542  
Ferreira, M. C. 9042  
Ferreira, P. S. F. 1141, 8854, 9672, 11104  
Ferreira, R. A. 7695  
Ferrell, G. T. 777  
Ferrero, A. 432  
Ferretti, J. 2118  
Ferrini, F. 8937  
Ferris, D. K. 2072  
Ferris, H. 10684  
Ferris, I. G. 6319  
Ferro, D. N. 4269, 4496, 7753  
Ferro, M. I. T. 2048  
Ferrús, A. 3043  
Ferster, B. 6093  
Fescemyer, H. W. 4052, 9139, 11174  
Fesenko, E. E. 10122  
Fet, V. 10294, 11073  
Fett, W. F. 5531  
Fetterer, R. H. 11192  
Fettköther, R. 5833, 9174  
Fellow, J. H. 9334  
Feyereisen, R. 2915, 7047  
Ffrench-Constant, R. H. 258, 1920, 2968, 3334, 4255, 6324, 9399, 9833, 10608  
Fiala, B. 814  
Fibinger, S. C. 3853  
Fichet, T. 5688  
Ficken, L. C. 3793  
Fidalgo, P. 10935  
Fidgen, J. G. 7958  
Fiebig, M. 7642  
Fiedler, K. 1082, 4970, 8427  
Field, J. 9293, 11325  
Field, L. H. 6053, 10180  
Field, L. M. 3341, 9238, 11263  
Field, R. 4710  
Field, R. P. 4707-4709  
Field, S. A. 11155  
Field, T. K. 6543  
Fielding, K. 7346  
Fielding, N. 2248  
Fielding, N. J. 770  
Fields, P. 8997  
Figueiredo, R. A. de 6694  
Figuerras, J. To- 8564  
Figuerras, M. 9810  
Figueroa, A. J. 11311  
Figueroa, J. 4008  
Figuli, P. J. 9377  
Filajdić, N. 9845  
Filella, I. 4534, 5508  
Filion, L. 2712, 3661  
Filip, G. M. 5778  
Filip, Z. 9462  
Filipenko, M. L. 994, 5870  
Filippovich, Yu. B. 147  
Filsler, J. 9286  
Fima, F. 7641, 11719  
Finbow, M. E. 4917  
Finch, S. 7503, 12087  
Finck, V. 10990  
Findlay, E. 5315  
Findlay, J. A. 8514  
Findlay, J. B. C. 4917  
Pink, B. 1307  
Fink, U. 11452  
Finlay, H. 11001  
Finlayson, B. J. 8551  
Finley, B. L. 8591  
Finnegan, D. J. 2944  
Finnegan, M. M. 378  
Finnerty, C. M. 2175  
Finney, J. A. 2652  
Finney, J. R. 6916  
Finson, N. 5222, 9510, 11588  
Finston, T. L. 5994  
Fiorentino, D. C. 2647  
Fiori, M. 9873  
Firth, A. C. 6852  
Fischer, C. 10852  
Fischer, D. B. 9698  
Fischer, D. L. 11645  
Fischer, M. 1812  
Fischer, S. 10979  
Fisher, J. R. 4012  
Fisher, M. J. 5867, 8165, 9202  
Fisher, P. 1915  
Fisher, P. J. 3181  
Fisher, W. S. 8410  
Fishpool, L. D. C. 918, 11796  
Fitt, G. P. 229, 3688, 5150, 5603, 5605, 9367  
Fitton, M. G. 1212, 1800, 3793  
Fitzgerald, G. W. 4479  
Fitzgerald, T. D. 6059  
Fitzjohn, S. 10342  
Fitzpatrick, S. M. 9516, 9854-9855  
Fivaz, J. 2586  
Fjellberg, A. 11367  
Flake, L. D. 11612  
Flanagan, G. J. 10024  
Flanders, K. L. 4460, 9778  
Flanders, R. V. 3152  
Flath, R. A. 4378, 5378, 7507, 9703  
Flechtmann, C. A. H. 7022  
Flechtmann, C. H. W. 4624, 10984  
Fleischer, J. 11731  
Fleischer, S. J. 4224, 4536, 8731  
Fleming, J. E. 4927  
Fleming, R. A. 365, 1682, 7938  
Fletcher, D. J. C. 973, 5142  
Fletcher, J. C. 7137  
Fletcher, M. J. 6953  
Fletcher, O. J. 2313  
Fleury, F. 3212, 4060, 11439  
Fleury, P. 1557  
Flexner, J. L. 5537  
Flexner, L. 4059  
Flickinger, E. L. 8540, 11614  
Flickinger, N. J. 4524  
Fliert, E. van de 577  
Flint, H. M. 706, 10913, 10922  
Flint, M. L. 382, 8864, 8940, 11996  
Floate, K. D. 3986, 10945  
Flook, P. 5989, 11270  
Flook, P. K. 8330  
Florack, D. 9946  
Flores, A. E. 3336  
Flores-S., M. E. 4800  
Flórez Ochoa, G. 6540  
Flori, P. 506  
Floris, I. 5645  
Florkowski, W. J. 4757  
Floyd, R. B. 5641, 6752  
Floyd, T. 8262  
Flückiger, W. 4738  
Fluetsch, K. M. 451  
Fluri, P. 1287  
Foahom, B. 10929  
Focardi, S. 7617  
Foderaro, T. A. 3861  
Foe, C. G. 11657  
Foerster, L. A. 7569  
Fogain, R. 9881  
Fogarty, P. 5954  
Fogg, K. E. 4950  
Foggo, A. 2670, 4706, 9975  
Fogleman, J. C. 2744, 4929  
Fogliazza, D. 840, 6878, 6880  
Foldi, I. 5840, 10311  
Foley, P. 1172  
Folgarait, P. J. 6770  
Folkers, G. 3247  
Follas, G. 6628, 6679  
Follett, P. A. 7545, 10547  
Folse, J. A. Brecken- 1344  
Folse, L. J. 2072  
Foltz, J. L. 404  
Fomum, Z. T. 806  
Fónagy, A. 1907  
Fong, G. 11881  
Fonovich de Schroeder, T. M. 10519  
Fonseca, C. R. 2683  
Fonseca, C. R. V. da 3774  
Fonseca, N. 9042  
Fonseca de Souza, O. F. 4683



- Font, G. 507, 2365, 5734, 11654  
Fontaine, D. D. 9641  
Fontana, G. 9594  
Fontanillas Pérez, J. C. 933  
Fontdevila, A. 7173, 8187, 9232, 10237, 11279  
Fontes, E. M. G. 2747  
Foot, B. A. 7154  
Footit, R. G. 920  
Footitt, R. B. 5994  
Forbes, T. L. 1387  
Forbes, V. E. 1387  
Forcella, F. 2754  
Ford, D. J. G. 1094  
Ford, M. G. 4247  
Ford, M. J. 11281  
Ford, R. 5879  
Ford, T. H. 4095  
Foreman, W. T. 499  
Forer, A. 10222  
Forer, G. 4218  
Forget, P. M. 7900  
Foromasari, L. 8977  
Forodkova, N. 2052  
Forrester, G. J. 5714  
Forrester, N. W. 9559  
Forsé, L. 11777  
Forshcler, B. T. 2094, 2099  
Forsling, G. 11360  
Först, C. 1383  
Forster, P. I. 1681, 5622, 10932  
Forster, W. A. 429  
Forsyth, D. J. 4449  
Forsythe, K. 2778  
Fort, F. L. 450  
Fortelius, W. 973, 5142  
Forti, D. 11856-11857  
Forti, L. C. 1974, 2477  
Forti, S. 12073  
Fortmann, R. C. 255  
Fortún, S. Sánchez- 4289  
Foss, S. S. 8410  
Fossi, M. C. 2288  
Foster, G. D. 499  
Foster, G. N. 5074  
Foster, R. E. 9801, 9822  
Foster, R. N. 5261, 9742  
Foster, S. P. 402, 675, 968, 5042, 6286, 11320  
Foster, W. A. 11325  
Foucard, J. C. 9035  
Fouillaud, M. 4174, 8435, 10291  
Fouillet, P. 3211-3212, 11439  
Fouly, A. H. 3220, 5520  
Fourcade-Peronnet, F. 163  
Fourcassie, V. 3948, 7208  
Fourche, J. 1047, 9231  
Fourgeres, D. 2704  
Fournet, B. 4195  
Fournier, B. 5890, 5903, 9185  
Fournier, B. R. 9217  
Fournier, D. 5288, 8201, 11596  
Fournier, F. 8721  
Fournier, J. C. 1442  
Fowler, G. C. 3616  
Fowler, H. G. 1624, 1974, 2660, 4023, 5130, 7248, 8354, 8363, 10910, 11412, 11417, 11429  
Fowler, K. 2995, 5006  
Fowler, S. W. 3389  
Fowles, A. P. 8289  
Fox, C. A. 4417  
Fox, C. W. 825, 1983, 3801, 4776, 5953, 6033, 10146, 11163, 11169-11170  
Fox, F. M. 5277  
Fox, J. W. 8913  
Fox, R. D. 2069, 6312  
Frachon, E. 2181  
Fraga, B. M. 6824  
Fragoulis, E. G. 962  
Fraiers, T. 2876  
Fraissinet, P. R. 11294  
Främs, H. 11349  
Frampton, G. K. 6035, 7566, 7660  
Frana, J. E. 2475  
Franc, G. 3898  
Franc, V. 7281  
França, F. H. 5474, 5484, 6554  
Francardi, V. 782, 9995-9996  
France, Society for Invertebrate Pathology 10062  
France, Union Nationale Inter-professionnelle des Légumes Transformés 10770  
Frances, V. L. 2612  
Francescato, E. 2880  
Francino, M. P. 5961  
Francis, B. 10004, 10978  
Francke, W. 973, 1403, 1694, 1889, 4360, 9174, 9181, 9652, 9981, 11686  
Franetovich, L. M. 10532  
Frana, H. E. 4820  
Frank, J. H. 1199, 4211, 4756, 5385, 10323-10324  
Frank, M. R. 2744, 4929  
Frank, R. 8480  
Franke, H. J. 4063  
Franke, S. 8586  
Frankenhuyzen, A. van 10952  
Frankenhuyzen, K. van 364, 1268, 4192, 7960, 8929, 9568  
Frankham, R. 1073, 1953-1955  
Frankino, W. A. 3054  
Franklin, E. 3072  
Frankovic, L. 8554  
Franks, N. R. 1106, 11326, 11331  
Franks, R. M. 2925  
Franqui, R. A. 10326  
Frans, R. E. 5756  
Fransen, J. A. M. 1240  
Fransen, J. J. 4759, 9508  
Franz, G. 1947, 3883, 8464, 11240  
Franz, H. 1821  
Franz, P. R. 5556  
Franzén, M. 10523  
Franzese, A. 8355  
Franzmann, B. A. 562  
Frary, A. 3525  
Fraser, M. J. 8426  
Fraser, R. G. 6778  
Fraser, S. 9659  
Frat, F. 5989  
Frazier, J. L. 3841, 9197, 10681  
Fredieu, J. R. 960  
Free, S. N. Y. F. 806  
Freeman, M. 5981  
Freemark, K. 5101  
Freemark, K. E. 7605, 11558  
Freese, G. 1226, 8986  
Freidberg, A. 1809, 8987  
Freier, B. 3430, 9541  
Freisewinkel, D. C. 1726  
Freitas, A. V. L. 1852  
Freitas, S. de 3808  
French, B. W. 1218, 4510, 6183, 6428  
French, J. B., Jr. 3375  
French, J. R. J. 1334  
French, V. 2955, 9121-9122  
Fréot, B. 5042, 8799  
Freriksen, A. 3821, 4919  
Frérot, B. 402  
Fresquet, N. 8115  
Freulard, J. M. 7866  
Freuler, J. 6084  
Frey, J. E. 3305  
Freyer, A. J. 349  
Freytmüller, E. 7390  
Freyssinet, G. 9534  
Frias, D. 10125  
Frias, L. D. 10818  
Frias L., D. 2912  
Frick, C. 10154  
Fricke, J. M. 8372  
Fried, A. 6642  
Friedel, J. 8110  
Friedel, T. 10189  
Friedländer, M. 10549  
Friedrich, R. W. 5924  
Friesen, C. F. 8395  
Friesen, K. S. 6001  
Friesen, P. D. 10426  
Friesland, H. von 7320  
Friso, D. 7323  
Fritsch, E. 10358  
Fritz, A. H. 673  
Fritz, R. S. 3646, 5650, 6761  
Fritz, V. A. 10709  
Fritzlar, F. 1673  
Froeschner, R. C. 10087, 11100  
Froese, A. 5397  
Frohlich, A. A. 9018  
Frohlich, D. R. 5977, 9267  
Frolov, A. N. 2429  
Fromm, M. E. 9713  
Froneman, M. L. 10613  
Frösche, M. von 8620  
Frost, A. J. 4547, 11618  
Frost, W. E. 583  
Frutos, R. de 2977  
Fry, D. M. 10589  
Fry, G. J. 337-338  
Fry, G. L. A. 6035, 6452, 7240  
Fry, J. D. 5972, 9246-9247  
Fry, M. D. 2291  
Fryday, S. L. 2338, 11642  
Frye, M. 11471  
Fu, C. L. 2182  
Fu, D. C. 310, 7682  
Fu, H. Y. 10877  
Fu, Y. F. 9628  
Fu, Y. Q. 11521  
Fuchedzhii, V. D. 6202  
Fuchs, E. 9383  
Fuchs, H. 884  
Fuchs, T. W. 9958  
Fuentes, C. 2479  
Fuentes, J. P. 933  
Fuester, R. W. 9424  
Fugitt, T. 6387  
Fuglie, K. 6555  
Fugo, H. 114  
Führ, F. 567, 10664  
Führer, E. 1701, 2709, 4717  
Führer, L. 2101  
Fujibayashi, Y. 6076  
Fujie, T. 5295  
Fujii, H. 194, 2148, 5856  
Fujii, K. 4811, 6529, 9338  
Fujie, A. 362, 7456, 7480  
Fujikata, M. 362  
Fujimori, T. 4273, 7551, 10983  
Fujimoto, H. 4274  
Fujimoto, K. 6005  
Fujimoto, T. 5439  
Fujimoto, Y. 3320-3321  
Fujimura, K. 2469  
Fujimura, R. 8551  
Fujimura, T. 6574  
Fujisaki, K. 67, 150, 1865, 1963, 1981, 2749, 4952, 7708, 7985, 10247, 10270  
Fujisawa, I. 3529  
Fujisawa, Y. 110  
Fujita, A. 10143  
Fujita, N. 110  
Fujita, T. 2254, 4351, 7553, 10670, 10672  
Fujiwara, H. 11260, 11264  
Fujiwara, T. 9469  
Fujiwara, Y. 6886  
Fujiyama, S. 815  
Fukami, H. 565  
Fukamiya, N. 5383  
Fukatsu, T. 3134, 4832, 10111, 10341  
Fukuchi, T. 7540  
Fukuda, K. 2170  
Fukumoto, T. 3832  
Fukushima, J. 10671  
Fukushima, Y. 5443  
Fukuyama, K. 7906  
Fulcher, R. G. 8015  
Fullard, J. H. 5826, 8158  
Fuller, B. 10627  
Fuller, M. 9856  
Fuller, M. J. 2643  
Fuller, P. 460  
Fulton, M. H. 2332  
Funakoshi, M. 4191, 5205, 9489  
Funao, T. 10335  
Funato, H. 12020  
Funayama, K. 2225, 6342, 10847  
Funayama, K. I. 10576  
Funderburk, J. E. 4468, 8741, 9750  
Funk, C. 10967  
Funk, D. J. 1956  
Funk, K. A. 443  
Funke, W. 1308  
Furch, J. A. 261  
Furcim, J. L. 8831  
Furia, M. 4995, 11243, 11273  
Furiatti, R. S. 4495  
Furlan, L. 9284  
Furlong, M. J. 4104, 6336  
Furniss, M. M. 9994  
Furth, D. G. 9302  
Furuhashi, K. 11580, 11891  
Furukawa, H. 7596  
Furukawa, K. 7338  
Furuki, T. 10355  
Furuno, T. 5668  
Furuta, K. 778, 8885, 8920  
Furuya, M. 11958  
Fusaka, T. 3340  
Fuse, T. 5196  
Fushiwaki, Y. 10635  
Futai, K. 765  
Futuyama, D. J. 1007, 1956  
Fuxa, J. R. 2192, 4177, 4469, 5245, 6260, 9474, 11767  
Fuyama, Y. 11232  
Fytianos, K. 11664  
Gabarra, R. 379, 9664  
Gábel, B. 11019  
Gabel, B. 4382, 5694, 10866  
Gabor, I. 2626  
Gábor, B. 7864  
Gabor, J. W. 6432  
Gaboriaut, D. 8242  
Gabr, M. H. 4320  
Gabriel, D. 7886  
Gadagkar, R. 2867  
Gadani, F. 7885  
Gáde, G. 3858, 3870, 5935, 9170, 10164  
Gadelhak, G. G. 2940, 5280, 9183  
Gadenne, C. 4564, 8142  
Gado, A. 5164  
Gadsden, R. J. 8286  
Gage, M. J. G. 3848  
Gage, S. H. 5392  
Gaggi, C. 5347  
Gagne, J. A. 7598  
Gagné, R. J. 3772, 4593, 5653, 8045, 11087  
Gagnon, G. 759  
Gagnon, H. 6865  
Gahan, L. J. 11592  
Gahlot, R. 4278  
Gahukar, R. T. 7686  
Gai, J. Y. 3496, 11768  
Gaikwad, C. B. 10724  
Gaikwad, S. A. 8525  
Gaillardon, P. 510  
Gaines, D. N. 9797  
Gaines, S. B. 1888  
Gajbhiye, V. T. 4329, 7765, 8583, 8616, 10652, 11824  
Gajda, A. M. 498  
Gajdos, P. 3099  
Gajendra Singh 6139  
Galán-Wong, L. J. 4166, 6124  
Galanihi, L. D. 1489  
Galar, C. I. 8521  
Galarza, L. 516, 4556  
Galas, S. 9327  
Galassi, S. 3400, 5363  
Galán Bernal, J. 6644  
Gale, W. 2054  
Galey, F. D. 11402  
Galián, J. 158, 7302, 7341, 8196  
Galileo, M. H. M. 4648, 6959, 6965  
Galindo, M. I. 5015  
Galinski, M. S. 4156  
Galkin, G. I. 780  
Gallagher, G. 1372  
Gallagher, K. D. 11749  
Gállego, M. 442  
Gallego, M. 6429, 6446-6448  
Gallenberg, D. 5781



Gallerani, V. 639, 641  
Galletta, G. J. 870  
Galli, E. 11259  
Galli, J. C. 4412  
Galli, P. 6642  
Gälli, R. 2057  
Galliano, A. 11865  
Galliart, P. L. 11298  
Gallic, J. F. le 1512, 7640-7641  
Gallignani, M. 411  
Gallo D., P. 9918  
Galoux, M. 420  
Gama, M. M. da 6756  
Gamal, E. S. 2259  
Game, A. Y. 1959  
Gamer, A. O. 7512  
Ganero-Lucas, J. J. 11677  
Gammond, G. R. 8480  
Gamon, M. 2333, 7559  
Gan, J. 8584  
Gan, Z. Y. 3557  
Ganapathi, N. 6866  
Gandhale, D. N. 5429-5430  
Gandolfo, D. 72  
Ganesh Kumar, M. 7696  
Ganeswara Rao, A. 7631  
Ganetzky, B. 11203  
Ganga Visalakshy, P. N. 8001  
Gangappa, E. 7989  
Gangloff, W. J. 10382  
Gangwar, B. 1456  
Gangwar, K. S. 8813  
Gangwar, S. K. 5263  
Gannaway, J. R. 4665  
Gannon, A. J. 3645  
Gannon, M. R. 3687  
Gans, D. A. 5335  
Gantner, M. 11917  
Gao, C. X. 10139  
Gao, D. M. 10733  
Gao, D. R. 11134  
Gao, G. T. 9689  
Gao, J. R. 9050  
Gao, L. R. 2067, 3172  
Gao, M. Y. 8941  
Gao, N. Z. 8857  
Gao, Q. K. 11144  
Gao, S. L. 10255  
Gao, S. S. 11365  
Gao, W. Z. 3035, 10889  
Gao, X. W. 11829  
Gao, Y. P. 10919  
Gao, Z. G. 4649  
Gao, Z. L. 715  
Gao, Z. Z. 1173  
Gaouar, N. 11932  
Garaffoni, M. 11853  
Garajová, L'. 5349  
Garau, R. 9873  
Garau, V. L. 5578  
Garayoa, M. 3794  
Garbe, V. 9671  
Garburg, W. 1430  
Garcia, C. 4183, 11478  
Garcia, J. A. 4361  
García, J. E. 10662  
García, J. F. 467  
Garcia, J. F. 1660-1661  
García, J. R., Jr. 6828  
García, M. A. 11662  
García, M. A. 7162  
García, M. B. 8973  
García-Barros, E. 6997  
García-Cuenca Ariati, I. 933  
García de Campos, W. 7913  
García de la Vega, C. G. 1929  
García Guerreiro, M. P. 2992, 8232  
García Hernández, J. E. 8491  
García-Marí, F. 2131, 6664, 6686  
García-Pérez, J. A. 3060  
García Q., E. 9724  
García R., F. 9724  
García R., J. L. 7186  
García-Repetto, R. 4231  
García-Torres, L. 8009  
García-Vallejo, M. C. 3319  
García-Vallejo, M. I. 3319  
García, T. P. 933  
Garczyński, S. F. 7464  
Gard, I. 5279  
Gardiner, M. G. T. 7164  
Gardner, J. C. 1591  
Gardner, M. G. 8980  
Garel, A. 4989  
Garg, A. K. 8486  
Garg, B. D. 8541  
Garg, D. K. 10778  
Garg, R. 11782  
Gargiulo, G. 9237  
Garhwal, S. N. 8705  
Gari, J. V. F. 3201  
Garland, J. A. 6925  
Garlaschelli, L. 1401  
Garneau, F. X. 6865  
Garneau, L. 2196  
Garnier-Sillam, E. 8856  
Garnsey, S. M. 4591, 11368  
Garófalo, C. A. 9264  
Garonna, A. P. 6172  
Garraway, E. 2684, 3933  
Garrett, F. J. 2189  
Garrido, C. 11102  
Garrido, M. 7737  
Garrido, M. J. 7687  
Garrigues, P. P. 10638  
Garrigues, S. 411  
Garrison, R. C. 4927  
Garrison, W. 4314  
Garry, V. F. 7574  
Garvin, G. M. 8131  
Garwood, J. 82  
Gary, T. G. 9123  
Gasnier-Fauchet, F. 1887  
Gaspar, C. 6901, 7734, 10035, 11004  
Gasparich, G. E. 8204, 11256  
Gasparinetti, P. 3162  
Gasperazzo, W. L. 4694  
Gasperi, G. 3002, 6010  
Gassmann, A. 4787, 12056  
Gast, S. J. 5666  
Gaston, K. J. 729, 774, 3129, 10100  
Gaston, L. K. 11450  
Gatehouse, A. G. 9297  
Gatehouse, A. M. R. 279, 1288, 1468, 2232, 2621, 5269, 8127, 8478, 8614, 9945, 11564  
Gatehouse, J. A. 1288, 2232, 2621, 5269, 8127, 8614, 9945  
Gatehouse, L. N. 9945  
Gaterman, R. 8586  
Gates, D. B. 7506  
Gates, J. 9103  
Gates, P. M. 499  
Gates, S. 218  
Gathmann, A. 11344  
Gatta, C. della 10033  
Gaudichon, V. 5293, 8337, 9583  
Gaugler, R. 377, 813, 4182, 4194, 4755, 7452, 7475, 8415  
Gaugler, R. H. 2189  
Gaul, S. O. 9856  
Gauld, I. D. 4677, 8082  
Gaul, K. R. 11763  
Gaum, W. G. 5511, 9538  
Gauna, L. 10590  
Gaut, R. E. 5546, 8777  
Gaur, H. S. 3734  
Gaur, J. P. 8400  
Gaur, R. K. 5663  
Gautam, D. C. 3891, 11245  
Gautam, R. D. 4101, 4635  
Gautam, S. R. 809  
Gautier, C. 2992  
Gawel, N. J. 5003  
Gawron-Burke, C. 5239  
Gayatri, R. 470, 4280, 5312  
Gaylor, M. J. 2638  
Gaytán Guzmán, I. 1708  
Gayubo, S. F. 10002  
Gazit, E. 11519  
Gazzoni, D. L. 8690  
Gbolade, A. A. 8952  
Gbongboui, C. 7328  
Gebala, B. 6816  
Gebauer, M. B. 7589  
Gebre-Amlak, A. 11734  
Gedamu, L. 1270  
Gedia, M. V. 10244  
Gee, S. J. 9636  
Geels, F. P. 7993  
Geer, B. W. 1893, 1911, 8134  
Geerts, S. 7980  
Geertsema, H. 8671  
Geervliet, J. B. F. 6043, 6582  
Geest, L. P. S. van der 8420  
Geetha, P. R. 7087  
Geetha Gopalakrishnan 6403, 8484  
Gehring, C. A. 7939  
Gehring, W. J. 2979  
Geiger, H. 7147  
Geissler, K. 5246, 9526  
Gelbart, W. M. 5964, 9250  
Gelbaum, L. 10680  
Gelbke, H. P. 7512  
Gelernter, W. D. 10506  
Gellissen, G. 11270  
Gelman, D. B. 7622, 11220  
Gemmeke, H. 7604  
Genç, H. 1486, 11710  
Gencheva, E. 3883  
Gendre, N. 4959  
Gendron, A. 10628  
Genini, M. 8665  
Genova, L. 10631  
Genthner, F. J. 8410, 9599  
Gentry, A. 10091  
Geoffroy, E. L. 2836  
Geonarso, D. 5326  
George, N. 10522  
George, S. K. 350-351, 546, 4405, 10807, 10810  
George, T. 11824  
Georgel, P. 10218  
Georgioui, G. P. 4257  
Georgiev, P. G. 2950  
Georgieva, T. G. 9161  
Gérard, H. C. 5531  
Gerard, P. J. 6875, 8953  
Gerber, G. H. 9136  
Gerber, R. G. 6407  
Gerber, S. 6084  
Gerbi, S. A. 1050, 9230  
Gerding, M. 9668  
Gerding P., M. 4466  
Gergely, K. 4458  
Gergerich, R. C. 6543, 7740  
Gerhart, D. J. 10586  
Geri, C. 4723, 6178, 8903, 9268, 10188  
Geri, P. C. 763  
Gerin, C. 7167  
Gerk, A. O. 8734  
Gerling, D. 175, 4317  
Germ, M. 5923  
Germán, F. C. 8521  
German, T. 11516  
German, T. L. 7476  
Germany, Biologische Bundesanstalt für Land- und Forstwirtschaft 1318, 1761, 3323, 3728, 12064  
Germany, Deutsche Gesellschaft für Technische Zusammenarbeit 3731  
Germany, Fachhochschule Weihenstephan und Versuchsanstalt für Gartenbau Weihenstephan 9020  
Germolec, D. R. 496  
Gernoth, H. 6642  
Geroge, M. 2825  
Gerritsen, L. J. M. 7395, 7417  
Gerson, U. 334, 3537, 4588, 4847, 5562, 7221, 11309  
Gerstenlauer, B. 11219  
Gerster, T. 5999  
Gerstmeier, R. 7361  
Gerth, W. J. 4010  
Gertsson, C. A. 1143  
Gervasini, E. 12033  
Gervet, J. 8242  
Gesraha, M. A. 11432  
Gestel, C. A. M. van 1970, 9543  
Geurs, M. 6086  
Geyer, H. J. 4314  
Geyer, M. W. 3616  
Ghadiri, H. 8593  
Ghais, S. M. A. 8554  
Ghally, S. E. 2157, 10417  
Ghanathay, V. V. 2341  
Ghannoum, M. I. 11714  
Ghatak, S. S. 6014  
Ghayyur, U. 6258  
Ghazoul, J. 7026  
Ghedini, R. 1617  
Ghelli, A. 10624  
Ghidui, G. M. 549, 6612, 7757, 9776, 11827  
Ghijsen, R. T. 10505  
Ghini, R. 2528  
Ghimikar, A. D. 2437  
Ghode, B. D. 6534  
Ghorpade, S. A. 12047  
Ghose, S. 5619  
Ghosh, A. 3478  
Ghosh, L. K. 6091  
Ghosh, M. R. 3461, 3464, 5442  
Ghosh, R. 11638  
Ghosh, S. 2295, 2770  
Ghousia Begum 11621  
Ghulam, W. 2419  
Ghulam Sarwar 4309  
Ghumare, S. S. 3419  
Giacometti, R. 6703  
Giamoustaris, A. 5571  
Gianfreda, L. 528  
Gianguiliani, G. 11390  
Giannone, F. 2570  
Giannotti, E. 3031, 4754  
Giannotti, J. 7441-7442  
Giathi, G. 1705  
Giayetto, A. 9522  
Gibas, S. 7959  
Gibb, K. 11921  
Gibbs, A. 7107  
Gibbs, J. 8883  
Gibbs, P. 3378  
Gibbs, P. J. 2296, 2348  
Gibellato, C. M. 2909  
Giblin-Davis, R. M. 2239, 3800, 3993, 4362, 4376, 11391  
Gibson, D. M. 9512  
Gibson, J. P. 12013  
Giebultowicz, J. M. 131, 1100  
Gieguzynska, E. 2364  
Gielis, C. 5814  
Giersemehl, I. 10769  
Giesbert, E. F. 3771  
Giesler, G. 6483  
Giessen, W. A. van 4052  
Giesy, J. P. 1346, 3355-3356  
Giez, I. 2740, 8610  
Giga, D. P. 841, 8691, 8693, 8703, 8713  
Giglione, C. 4204  
Gijlstra, R. 7614  
Gijssels, P. D. 11572  
Gijzen, M. 9498  
Gil, G. 10844  
Gil, G. A. Y. 7876  
Gil, R. R. 10679  
Gilbert, A. J. 11089  
Gilbert, C. 7079  
Gilbert, D. G. 11361  
Gilbert, L. E. 3936  
Gilbert, L. E., Jr. 9318  
Gilbert, L. I. 132, 3887, 5917, 8129, 9203, 9206  
Gilboa, S. 4388  
Gilchrist, G. W. 8246  
Gildow, F. E. 10453  
Gileadi, C. 11214  
Giles, B. E. 5875-5876  
Giles, D. K. 3171  
Giles, J. E. 8013  
Giles, K. L. 3484  
Gilfillan, I. M. 7842  
Giliomee, J. H. 5511, 8764, 9538  
Gill, B. S. 713-714, 2416  
Gill, G. 11038  
Gill, G. S. C. 6691  
Gill, M. 848  
Gill, O. P. 685  
Gill, R. F. 10059  
Gill, R. J. 160, 8085



- Gill, S. A. 2675  
 Gillanders, S. W. 3874  
 Giller, P. S. 4024, 11718  
 Gillespie, A. J. R. 4720  
 Gillespie, A. T. 371, 1249, 4154, 10445  
 Gillespie, D. J. 11758, 11763  
 Gillespie, D. R. 212, 2240, 8740, 9825  
 Gillespie, J. P. 7425  
 Gillespie, M. J. 6294  
 Gillespie, R. G. 6057, 8272  
 Gillespie, R. L. 4424, 6517  
 Gillham, M. C. 2688  
 Gillis, C. A. 8590  
 Gillis, S. 11909  
 Gillot, C. 4972  
 Gillott, C. 1888, 8160, 11227  
 Gilly, S. P. 8898  
 Gillyboeuf, N. 3977  
 Gilmore, G. S. 7969  
 Gilstrap, F. E. 2121, 2442, 4432, 6478  
 Gimeno, C. 6571  
 Gindhart, J. G., Jr. 5967-5968  
 Gindin, G. 1260-1261, 7421  
 Gingerich, D. P. 9939  
 Gingery, R. E. 4168, 7684  
 Ginsburg, H. S. 11343  
 Ginzburg, L. R. 1135  
 Gionfriddo, J. P. 3374, 9607  
 Giorcelli, A. 8877  
 Giordana, B. 2928, 2930, 9504  
 Giordano, O. S. 2391, 6404  
 Giordano, R. B. P. 7529  
 Giorgini, M. 11826  
 Giovannini, E. 5893  
 Giraldeau, L. A. 8272  
 Giraldo, A. S. 5600  
 Giraldo, H. 8796  
 Giraldo-Vanegas, H. 7186  
 Girardie, A. 9217  
 Girardie, J. 5890  
 Girault, J. P. 11218  
 Girdham, C. H. 8197  
 Girgis, R. S. 2331  
 Girma, M. 4395  
 Girolami, V. 1560, 9876, 11843, 11854  
 Girona, J. 2589  
 Giroux, S. 2156  
 Girton, J. R. 7120  
 Gispert, C. 7826  
 Giuffrida, A. 58, 931  
 Giustolisin, T. A. 7787  
 Givovich, A. 5404, 5406, 6436  
 Gladstein, D. S. 6062  
 Gladstone, J. 1207  
 Gladstone, S. M. 7799  
 Gladwell, R. T. 11966  
 Glare, T. R. 2167, 2187, 6511, 7471  
 Glaz, B. 10904  
 Glazer, I. 687, 4755  
 Glazunov, I. N. 2554  
 Gleason, J. M. 11308  
 Gleason, M. L. 9844  
 Glen, D. M. 350-351, 546, 4136, 4405, 10807, 10810  
 Glendinning, J. I. 6047  
 Glenn, D. C. 6455  
 Glenn, H. 1778  
 Glick, G. D. 2153  
 Gliksmann, I. 8237  
 Glinka, A. V. 10191, 11213  
 Glietho, A. I. 6865  
 Glietho, I. 228  
 Gloer, J. B. 3414, 4229  
 Gloer, K. B. 3414  
 Glooschenko, V. 5332  
 Glover, D. M. 1921  
 Glynn, C. 4705  
 Glynn, C. J. 9842  
 Glynn, P. W. 11673  
 Gnanvossou, D. 2513  
 Gnatzky, W. 9290  
 Gnnyuk, V. I. 6202  
 Go, W. 7813  
 Goad, J. T. 6365  
 Gobbi, N. 3938, 3990  
 Gobin, B. 3827  
 Godase, S. K. 5569  
 Godawa, H. 187, 11902  
 Godfray, H. C. J. 1217, 2112, 4677, 7344, 8318, 8933, 8946, 9422, 12029  
 Godfrey, K. E. 2751, 6074, 6850  
 Godfrey, L. D. 4661, 10808  
 Godin, F. 2851  
 Godočíková, J. 4227-4228  
 Godonou, I. 280, 7328, 10791  
 Godoy, F. 5462, 7855  
 Godoy, F. J. 1564  
 Godoy, M. C. 3787  
 Godoy-Herrera, R. 1993, 3042, 4008  
 Godula, J. 4902  
 Godzi, T. A. 8520  
 Godzinska, E. J. 4681  
 Goebel, M. 1931  
 Goeden, R. D. 829, 2726, 5016, 12059  
 Goedicke, J. 8582  
 Goel, A. K. 9557  
 Goel, N. K. 9909  
 Goel, S. C. 6706, 6717, 8033, 10127, 11942  
 Goel, V. 84  
 Goeldin de Tiefenau, P. 1823, 4894  
 Goellner-Scheiding, U. 3109  
 Goettel, M. S. 9481, 10431  
 Goffau, L. J. W. de 2730  
 Goffinet, G. 946  
 Goforth, C. E. 2643  
 Goggiolo, D. 9875  
 Gogoi, R. 7108, 11467  
 Goh, D. K. S. 6321, 10556  
 Goh, H. G. 5496, 5835, 7636  
 Goitia, W. 5597  
 Goksyr, A. 10610  
 Golam Tohiuddin 3089  
 Gol'berg, A. 687  
 Gol'berg, A. M. 3311, 8511  
 Gold, R. E. 6102  
 Gold-Bouchot, G. 8595  
 Goldbach, R. W. 5214, 7443, 11487  
 Goldenberg, S. 1132  
 Goldenstein, T. 1345  
 Goldenstein, T. A. 8580  
 Goldman, L. R. 10461  
 Goldsmith, J. 9521  
 Goldson, S. L. 333, 1462, 2217, 6021, 6267, 6270, 6507, 6512, 7364  
 Goldstein, I. J. 2153  
 Goldstein, L. S. B. 5965  
 Goldsworthy, G. J. 979, 2920, 5883, 6142  
 Golebiowska, D. 2364  
 Golebiowska, Z. 3428  
 Gollapudi, R. R. 5982  
 Gollas, G. 6604  
 Golob, P. 8991, 8993  
 Golovanova, L. 8519  
 Golow, A. A. 8520  
 Gomaa, A. 7356  
 Gomaa, E. A. A. 456, 1633  
 Gomariz, G. 11292  
 Gomariz, M. V. Barahona- 4289  
 Gomariz-Zilber, E. 9494  
 Gomathivinayagam, P. 5024  
 Gomboc, S. 3176  
 Gomes, A. C. M. M. 10440  
 Gomes, O. S. 4695  
 Gomes, R. 1921  
 Gomes, T. C. A. 1409  
 Gómez, E. 8356  
 Gómez, E. E. 3197  
 Gómez, H. S. 11050  
 Gómez, J. 3915  
 Gomez, J. 2124  
 Gómez, J. M. 3195, 10020  
 Gomez Bonilla, Y. 7749  
 Gómez-Catalán, J. 8564  
 Gómez-Garibay, F. 9978  
 Gómez-Gómez, C. 11677  
 Gómez-Guillamón, M. L. 6623  
 Gomi, K. 7014, 10238  
 Gomi, S. 11583  
 Gomi, T. 8147  
 Gomot, A. 5918  
 Gomot, L. 5918  
 Gömrüngen, A. N. 934  
 Gondin, M. G. C. Jr. 1485  
 Gong, D. W. 1039  
 Gong, K. Y. 8507  
 Gong, L. G. 10733  
 Gong, Y. J. 11143  
 Gonzaga, J. V. 2639  
 Gonzales, L. M. 4371, 4622, 7627  
 González, A. 1951  
 González, A. G. 4763  
 González, A. M. 5014  
 Gonzalez, C. 10818  
 Gonzalez, D. 6177  
 González, E. 4521, 6661  
 González, J. 8356  
 Gonzalez, L. M. 4362  
 González, M. 4286  
 González, M. J. 466-467, 5345  
 Gonzalez, M. O. 9938  
 Gonzalez, N. 3980, 9305  
 González, P. A. de 2431  
 González, R. 7310  
 Gonzalez, R. 2597  
 González, R. H. 9901  
 González, S. R. 3385  
 González, T. 10512  
 González-Alonso, M. del S. 8349  
 González-Coloma, A. 803-804, 3488, 5369, 6824, 8611  
 González-Crespo, S. 1005  
 González-Dávila, M. 9632  
 González G., M. T. 7391  
 Gonzalez L., V. W. 10790  
 Gonzalez-Lopez, J. 489, 503, 6374, 6382, 10598  
 González Martín, M. M. 8491  
 González O., R. 2514  
 Gonzalez-Pozuelo, J. M. 2366  
 González-Pradas, E. 5503, 6391  
 González-Reyes, J. A. 7329  
 González Vainer, P. 4782  
 González-Vainer, P. 8002  
 González-Zamora, J. E. 6664, 6966  
 Goodell, P. B. 12028  
 Goodenough, J. L. 5070  
 Goodge, K. 6233  
 Goodman, B. A. 2266  
 Goodman, C. L. 8508  
 Goodman, W. G. 102, 2937, 4971, 10195, 11217  
 Goodrich, M. A. 1738, 2874, 3033, 3749, 6097  
 Goodwin, S. 11872-11873  
 Goodwin, S. F. 4917  
 Goosen, M. F. 8329  
 Gopakumar, B. 1733  
 Gopal, K. 690  
 Gopal, M. 592  
 Gopal Bharadwaj 2634  
 Gopal Misra 8481  
 Gopalakrishnan, B. 6249  
 Gopalakrishnan, G. 6403, 8484  
 Gopalan, M. 727, 3666, 5435, 6243, 6890, 8021, 11553  
 Gopalsundaram, P. 5763  
 Gopi, K. C. 2679  
 Gopichandran, R. 7873  
 Gopinath, K. 751, 1201  
 Gopinathan, K. P. 3882  
 Gora, V. 8876  
 Góralczyk, K. 8522  
 Gorczyca, M. G. 5979  
 Gordon, C. 11198  
 Gordon, D. M. 3190, 8971  
 Gordon, D. R. B. 408  
 Gordon, I. J. 1137  
 Gordon, K. H. J. 10411  
 Gordon, R. 8599  
 Gordon, R. D. 3777, 4865-4866, 8083  
 Gordon, S. C. 4569, 5534  
 Gordon, T. R. 10961  
 Gorel, F. L. 52  
 Gören, N. 3413  
 Gorman, K. 11587  
 Gorman, K. J. 4217  
 Gorobets, E. V. 3304  
 Gorochoy, A. V. 8060  
 Gorski, P. R. 6371  
 Górski, R. 1299  
 Gort, G. 10045  
 Görtz, A. 5901  
 Gosálbo, L. 3831  
 Gosálvez, J. 2990, 3092, 5117  
 Goss, G. R. 10528  
 Gosso, E. 5363  
 Gswami, N. 9018  
 Got, B. 4060  
 Gothliff, S. 4073  
 Goto, K. 9270  
 Goto, M. 824, 6853  
 Goto, T. 4276  
 Gotoh, T. 5838, 6009, 7014, 8889, 10238, 10938  
 Gotthard, K. 3921  
 Gottschild, D. 4341  
 Gottwald, J. 9057  
 Gottwald, R. 1556  
 Gottwald, T. R. 4591, 9885, 11368  
 Götz, P. 2926, 10198  
 Gou, C. Y. 11962  
 Goud, T. R. 8811  
 Goudegnon, A. E. 2129, 2190  
 Goudonou, I. 7427  
 Goudriaan, J. 7481  
 Gouge, D. H. 7413  
 Gouger, R. 6463  
 Gough, N. 10994, 12039  
 Gough, U. 8256  
 Goujet, R. 9479  
 Goula, M. 7788  
 Goulart, J. A. 4457  
 Gould, F. 6484, 7545, 10265, 10547  
 Gould, F. L. 6485  
 Gould, J. R. 4687  
 Goulet, H. 4823  
 Goulson, D. 219, 3032, 3943, 5952, 6241  
 Gourdoux, L. 96, 8503, 9560  
 Gourlay, A. H. 6847, 11013  
 Gourmet, C. 3436  
 Goussard, F. 763, 6178, 9268  
 Goux, J. M. 1932  
 Gouy, V. 510  
 Govindachari, T. R. 6332, 6403, 8484  
 Govindan, R. 3258  
 Gowling, G. R. 4404  
 Goyal, S. N. 9762  
 Goyer, R. A. 11982  
 Gozé, E. 7889  
 Gözel, U. 7205  
 Grabherr, R. M. 5233  
 Grace, J. 6551  
 Grace, J. K. 838, 1764, 2257, 3698, 5731, 6205, 8023, 11003  
 Graf, A. 3236  
 Graf, B. 1536, 1540, 5528-5529, 6647, 8750  
 Graf, E. 12071  
 Grafius, E. 3520, 5495  
 Grafius, E. J. 440, 1494, 5244  
 Grafton-Cardwell, B. 8787  
 Grafton-Cardwell, E. E. 4590, 9890  
 Graham, B. R. 10432  
 Graham, M. W. R. de V. 2857, 3765  
 Grahnan, L. J. 4914  
 Grajek, W. 4189  
 Grala, B. 2400, 2503, 10898  
 Gramatzki, S. 2249  
 Granados, R. 9498  
 Granados, R. R. 373, 2175, 4155, 4198, 10071, 11512  
 Granados R. G. 6468  
 Granat, S. 502  
 Granato, T. C. 3398  
 Granby, K. 8548  
 Grandison, G. S. 10869  
 Granett, J. 11881  
 Granger, N. A. 102, 7094  
 Granier, L. 4340



- Grant, B. 9115
- Grant, D. F. 4914
- Grant, I. F. 3352
- Grant, W. E. 2072, 6113
- Graora, D. 1539
- Gras, H. 222
- Grasela, J. J. 8423
- Graser, V. E. 11284
- Grasso, D. A. 5138
- Grasswitz, T. R. 8260
- Grau, R. 8567
- Grau, V. 11218, 11223
- Grauso, M. 5893
- Gravena, S. 4595, 5614, 6737, 7846, 8733, 9275
- Graver, J. van S. 5774
- Graves, B. 2519
- Graves, D. M. 5889
- Graves, J. B. 2625, 6736, 9584
- Graves, J. L. 4926
- Gray, A. 10645
- Gray, A. S. 3838
- Gray, D. J. 6668
- Gray, D. R. 4225, 5845, 9970
- Gray, J. 6514
- Gray, L. E. 11606
- Gray, M. E. 4425
- Gray, R. S. 139, 1909, 5887
- Gray, S. M. 10453
- Gray, T. 4718
- Grayson, B. T. 3723
- Grazia, J. 3768, 3786, 3912
- Graziani, F. 9237
- Grazzini, R. 7966-7967, 10011
- Greany, P. D. 1571, 1779
- Greathead, D. J. 6268, 8086
- Greatti, M. 11843
- Greaves, A. J. 4600, 8576
- Greaves, J. 2352
- Grebenok, R. J. 8600
- Greca, M. la 9100
- Greco, C. F. 7189
- Green, B. M. 6241
- Green, J. M. 5120, 8489, 10500
- Green, S. V. 9288
- Green, T. A. 5655
- Greenberg, C. H. 11978
- Greenberg, L. 1990
- Greenberg, S. 2564, 2574, 6669
- Greenberg, S. M. 299, 4113, 9417
- Greener, A. 6162
- Greenfield, P. F. 6250
- Greenleaf, A. L. 2980
- Greenplate, J. T. 7514
- Greenslade, P. 3082
- Greenspan, R. J. 8123
- Greenspan Gallo, L. 9512
- Greenstone, M. H. 9402
- Greenway, R. M. 4078
- Greenwood, R. 4247
- Greger, H. 5382
- Gregg, P. C. 229, 3688, 9367
- Grégoire, J. C. 4706
- Gregory, D. A. 4319
- Gregory, P. 5473
- Gregory, P. G. 7090
- Grehan, J. R. 5841
- Greig, R. A. 2336
- Greig-Smith, P. W. 5315
- Greiler, H. J. 1125, 9737, 11344
- Greim, H. 7512
- Gremo, F. 11882
- Gren, I. M. 6306
- Grenback, L. G. 5870
- Grenbek, L. G. 994
- Grenier, A. M. 1903
- Grenier, S. 8113, 9432
- Grenoble, D. W. 8731
- Grether, M. E. 7037
- Greve, L. 2013, 7289
- Grewal, J. S. 4391, 11652
- Grewal, P. S. 813, 7452, 8415
- Grewal, R. S. 4638
- Grewal, S. K. 7452
- Grey, D. 1993
- Grichanov, I. Y. 9828, 11688
- Griepink, B. 5112
- Gries, G. 1890, 4371, 4376, 4379, 4622, 7058, 7627, 11695
- Gries, R. 1890, 4371, 4376, 4379, 4622, 7058, 7627, 11695
- Griffin, C. T. 378, 9490, 10455
- Griffin, T. T. 11352
- Griffin, W. B. 1787
- Griffis, W. L. 1347, 3358, 6362
- Griffith, L. C. 8123
- Griffiths, C. 2171
- Griffiths, D. W. 4512
- Griffiths, G. C. D. 4836
- Grift, N. P. 6380
- Grigarick, A. A. 8667
- Grigg, A. L. 6081
- Griggs, M. H. 4147
- Grigliatti, T. A. 8236
- Grigor'eva, T. M. 9523
- Gril, J. J. 510
- Grill, E. 10304, 10304
- Grimm, C. 2249, 6768, 6825
- Grimm, M. 11756
- Grimme, L. H. 5319
- Grin', T. A. 6420
- Grinberg, P. S. 1177
- Gringorten, L. 4197
- Gris, G. 5142
- Grisham, J. 11267
- Grisse, A. de 7973, 10470
- Grissell, E. E. 11098
- Griyaghey, U. P. 360, 9488
- Grob, R. L. 9410
- Grochowska, M. 1904
- Grodnitskiĭ, D. L. 1886
- Groenwold, R. 9808
- Groeters, F. R. 5222, 7526, 11588
- Grolmus, J. 5304-5305
- Gromysz-Kaŭkowska, K. 1904, 2343, 7562
- Gronenberg, W. 3930, 6048-6049
- Groninger, J. W. 1150
- Gronning, E. K. 10849
- Groot, A. de 2923, 3417, 6582
- Groot, P. de 5627, 7934, 7938, 9981-9982
- Groot, W. 7348
- Gropp, A. G. 8733
- Groscholz, E. D. 1254
- Grosman, D. M. 2258
- Gross, C. H. 2163
- Gross, H. 1180
- Gross, H. R. 4418
- Gross, P. 7199
- Grosscurt, A. C. 4562
- Grossman, H. 10011
- Grossman, M. 10710
- Grossman, R. B. 9549
- Grossniklaus-Bürgin, C. 316
- Grou, T. G. 1567
- Grove, A. 2335
- Grover, P. 11002
- Grover, P. B., Jr. 7664
- Grubb, R. T. 10053
- Gruber, A. 5215
- Gruber, P. F. 563
- Grubert, M. 6827
- Gruev, B. 3125, 11377
- Grüm, L. 216, 243
- Grunder, J. M. 7401, 7485
- Grunsky, H. 814
- Gruntenko, N. E. 994, 5870
- Grunwald, C. 4559
- Grzelak, K. 9240
- Grzywacz, D. 5602
- Gu, B. Y. 11455
- Gu, C. J. 3812
- Gu, D. J. 7333, 9802
- Gu, D. X. 666, 10736
- Gu, G. H. 7509
- Gu, Q. H. 7711, 11963
- Gu, Q. M. 3007
- Gu, S. H. 8164
- Gu, S. Q. 8668
- Gu, W. P. 11555
- Gu, X. H. 10139
- Gu, Z. Y. 8012, 10743
- Gualda, M. J. 4286
- Guan, J. D. 11365
- Guan, Z. H. 8342
- Guardia, M. de la 411, 1377
- Guardigni, P. 11853
- Guardo, A. D. 8588
- Guardo, A. di 2700
- Guarino, L. A. 6231, 8425, 11480
- Gubbaiah 3459, 10735
- Gubiani, R. 3162
- Gubler, W. D. 11910
- Guddewar, M. B. 7312
- Guedes, R. N. C. 1329, 4530, 4695, 8515
- Guerin, P. M. 5379
- Guérineau, N. 5890
- Guerra, A. A. 322, 1918
- Guerra, C. 1689
- Guerra H., J. 7675
- Guerrero, A. 10173
- Guerrero, M. A. 11006
- Guerrero, S. A. 2165
- Guerrero S., M. A. 10706
- Guertin, C. 9406
- Guessan, F. K. N. 2465
- Guéuen, A. 11295
- Guevara, J. E. M. 630
- Gueye-N'Diaye, A. 8991
- Guglielmino, C. R. 6010
- Guglielmone, L. 10811
- Guha, M. 9376
- Guha, S. 6572
- Guida, M. 5368
- Guidó, P. 1618
- Guidotti, T. L. 8560
- Guilbert, E. 8895
- Guildemond, J. A. 4539
- Guilin, C. 10541-10542
- Guillard, J. 5862
- Guillaud, J. 1887, 9215, 9432
- Guillaumin, D. 4734, 4885-4886
- Guillebeau, L. P. 2265
- Guillén, A. 466, 5345
- Guillet, C. 1047
- Guillet, G. 9151, 11322
- Guillon, G. 9185
- Guimarães, J. H. 3994
- Guinet, I. 10719
- Guix, J. C. 11291
- Gujar, G. T. 1390, 5956, 10074
- Guldemond, J. A. 1555, 3942, 5535-5536
- Gullan, P. J. 3741, 5800
- Gummesson, G. 2227
- Gunasekera, T. G. L. G. 11028
- Gunathilagaraj, K. 2451, 10043, 11052
- Gunawardena, N. E. 3144
- Gundermann, J. L. 1204
- Gunn, A. 3383, 9572
- Gunning, P. J. 430
- Gunning, R. V. 2274-2275, 5110, 6319, 6733, 10833
- Günster, A. 3684
- Günther, P. 2372
- Guo, D. A. 9214
- Guo, G. H. 310
- Guo, G. Z. 10675
- Guo, J. Q. 11134
- Guo, J. X. 9932
- Guo, M. 2945
- Guo, P. L. 10008
- Guo, S. D. 6245
- Guo, S. J. 11993
- Guo, X. P. 10877
- Guo, Y. J. 311, 10912, 11750
- Guo, Y. L. 3354
- Guo, Y. P. 19, 9228
- Guo, Y. Q. 8125
- Guo, Y. Y. 256, 311, 10689
- Guo, Z. Z. 7851, 8376
- Guoxun, L. 4198
- Gupta, A. 9732
- Gupta, B. M. 11005
- Gupta, C. P. 6139
- Gupta, G. P. 1631, 7896
- Gupta, H. C. L. 6548
- Gupta, H. M. 9218
- Gupta, J. P. 7111
- Gupta, K. 8469
- Gupta, K. P. 3365
- Gupta, M. 8490
- Gupta, M. K. 9763
- Gupta, N. 4278
- Gupta, O. P. 685
- Gupta, P. K. 10780
- Gupta, P. R. 8570
- Gupta, R. 2050
- Gupta, R. C. 6365, 9920
- Gupta, R. K. 11824
- Gupta, R. N. 11800
- Gupta, R. P. 2520-2521
- Gupta, S. 300, 4149, 6147, 11530
- Gupta, S. C. 6226, 6718, 9921
- Gupta, S. D. 10578
- Gupta, S. K. 2174, 2176, 11523
- Gupta, S. P. 9732
- Gupta, T. 4635
- Gupta, V. 300
- Gupta, V. K. 463, 2358, 9425, 11396
- Gupta, Y. K. 3320-3321
- Guriqbal Singh 8700
- Gurr, G. M. 7761
- Gürtler, H. 11479
- Gurudutt, K. N. 6826
- Gurumurti, K. 2825
- Gurung, G. B. 809
- Gurung, T. B. 5472
- Gurusubramanian, G. 7873
- Gur'yanova, T. M. 8906
- Gusachenko, A. M. 1185, 4990
- Guseva, V. S. 11406
- Gusmão, L. G. 4077
- Gustafson, D. I. 2373
- Gustafsson, G. 3574
- Gustavo, A. 1980
- Gustavsson, A. L. 11694
- Gustin, F. 2523
- Gustin, R. D. 4419
- Gut, L. J. 1538, 2746, 4275, 11603
- Guth, J. A. 8567
- Güther, I. 10041
- Guthrie, D. J. S. 4969
- Gutiérrez, A. 7130
- Gutiérrez, A. P. 2132, 3229, 5391, 10751, 12098
- Gutiérrez, C. 4291
- Gutiérrez, J. 4497, 6565, 8714, 9788
- Gutiérrez Ochoa, M. 811
- Gutiérrez-Panizo, C. 8947
- Gutteridge, R. J. 7652
- Gutzeit, H. O. 156
- Guyana, National Agricultural Research Institute 857
- Guyot, H. 4592
- Guzek, R. 12017
- Guzman, A. 3909, 4366
- Guzmán, F. S. de 3414
- Guzzella, L. 3400
- Gwinner, J. 6688
- Gwynn, R. L. 7410
- Gwynne, D. T. 8114
- Györfy, J. M. 1559
- Györfyné, J. M. 7837
- Gyoutoku, Y. 7860, 10366
- H. Arzone, A. 2300
- Haack, K. D. 6154
- Haack, R. A. 6793, 8706
- Haag, K. L. 5011
- Haag, M. 1122
- Haagsma, K. 6893
- Haapanen, K. 9674
- Haar, M. ter 4562
- Haas, F. 10120
- Haase, M. 11147
- Habeck, D. H. 1804, 2747, 3694, 4831, 6851
- Habeck, M. H. 1275
- Haber, W. A. 11297
- Habersetzer, C. 8242
- Habib, M. E. M. 2127, 7897
- Habib, S. 7128
- Habibuddin, H. 7706
- Habu, N. 12036
- Hachiya, K. 10727
- Hachouf, S. 9231
- Hacker, S. D. 8972
- Hackett, K. J. 3004
- Hackshaw, A. 9112
- Hadaček, F. 5382
- Haddad, M. L. 8814



- Haddon, W. F. 5372, 6393  
 Haddi, A. 5539  
 Hadley, K. S. 3656  
 Hadley, N. F. 2943  
 Haebler, R. 3372  
 Haefner, J. W. 5056  
 Haeften, T. van 1896  
 Haeger, J. F. 5052, 7277  
 Haemig, P. D. 2088, 5152  
 Haenni, J. P. 10309  
 Haertlé, T. 7626  
 Haeseler, A. 11138  
 Hafeez Ahmad 5512  
 Haffner, G. D. 9606  
 Häfner, M. 4234, 7620, 11660  
 Haga, K. 4934  
 Hagedorn, H. 4954  
 Hagedorn, H. H. 11226  
 Hagel, P. 11609  
 Hagen, K. S. 2132, 2671, 8943  
 Hagenvall, H. 3158  
 Hager, B. J. 3954, 4377, 4729  
 Hagger, R. J. 579  
 Hagiwara, A. 6360  
 Hagiwara, K. 7538  
 Hagiwara, Y. 9980  
 Hagler, D. A. 6127  
 Hagler, J. R. 712, 6127  
 Hagood, E. S., Jr. 10721  
 Hagstrum, D. W. 837, 1989, 4808  
 Hague, N. G. M. 7413, 10457  
 Hågvær, E. B. 5384  
 Haidara, M. 7685  
 Hails, Y. 5626  
 Hailemichael, Y. 6187  
 Hails, R. S. 3292, 6241  
 Hain, F. P. 2703, 3337, 8927-8928, 9586-9587, 9983  
 Hainzl, D. 2334, 4072, 4242, 10513  
 Haire, M. F. 11197  
 Haitsuka, S. 6802  
 Hajek, A. E. 2183, 4181, 4698, 7383  
 Hajšlová, J. 11712  
 Hakim, R. S. 5899  
 Hakim, S. S. Y. 6235  
 Halaby, R. 11185  
 Halaj, J. 9836  
 Halamkar, P. P. 9169  
 Halasy, K. 452  
 Halaweish, F. T. 6621  
 Halbert, S. E. 7760, 9743, 10451, 11015  
 Halbritter, J. 5927  
 Hald, A. B. 5712  
 Hale, R. C. 2352, 8581  
 Hales, D. F. 2071  
 Halfpapp, K. H. 660, 1527, 5708  
 Halimie, M. A. 6725, 11949  
 Halimiee, M. A. 1510  
 Hall, C. I. 2313  
 Hall, D. 1740  
 Hall, D. G. 4636, 11947  
 Hall, D. R. 7631  
 Hall, D. W. 10134  
 Hall, E. K. 10757  
 Hall, F. R. 273, 875, 2553, 3156, 4477, 7519, 9580, 9582  
 Hall, J. C. 2949  
 Hall, J. K. 2066  
 Hall, J. P. 4051  
 Hall, R. A. 372  
 Hallak, H. 3708  
 Hallberg, E. 5920, 10188, 11145  
 Halldórsdóttir, H. 1999  
 Hallet, B. 5210  
 Halliday, R. B. 10251, 11362, 11405  
 Halling-Sørensen, B. 4064  
 Hallman, G. J. 12084  
 Hallsworth, J. E. 3264, 11508  
 Halmágyi, T. 10459  
 Halme, E. 5626  
 Halperin, J. 2026, 8322  
 Haltiwanger, R. C. 349  
 Haltrich, W. G. 7512  
 Halverson, J. A. 2656  
 Halwart, M. 7701, 12090  
 Ham, K. D. 264  
 Hama, H. 1320, 10551-10552  
 Hamad, A. 11002  
 Hamad, B. S. 10843  
 Hamada, A. 2374, 9602, 10574  
 Hamada, K. 6308-6309  
 Hamada, M. 7522  
 Hamadache, H. 275  
 Hamade, N. 11629  
 Hamaguchi, H. 11567  
 Hamamura, T. 5541, 10635  
 Hamano, K. 10391  
 Hamblen-Coyle, M. J. 2949  
 Hamdard, M. S. 1510  
 Hamdy, N. A. 6298  
 Hameed, A. A. 7839  
 Hameed, A. Abdel- 10404  
 Hameed, S. F. 6718, 9921  
 Hamel, M. 4719  
 Hamelin, M. H. 5015  
 Hamid, H. A. 5553  
 Hamill, A. S. 2251  
 Hamilton, G. C. 6612  
 Hamilton, K. G. A. 8088, 9372  
 Hamilton, R. D. 2653  
 Hamilton, R. I. 8652, 9697  
 Hamilton, R. W. 3638  
 Hamilton, W. D. O. 2232, 5269, 9945  
 Hamilton-Kemp, T. R. 8771  
 Hamm, J. J. 5221, 6462, 9483  
 Hammack, L. 11319  
 Hammer, D. A. 4155, 10071  
 Hammock, B. D. 3153, 3397, 4169, 4914, 7457, 8346, 9208, 9441, 9636, 11217  
 Hammond, P. C. 9354  
 Hammond, P. M. 774, 3673  
 Hammond, R. B. 9751  
 Hamon, A. B. 3554  
 Hamon, J. 1834  
 Hampton, E. N. 5617  
 Hampton, R. O. 7747  
 Hamraoui, A. 5692, 12066  
 Hamú, C. 4899  
 Han, C. H. 1210  
 Han, E. N. 8120  
 Han, G. Y. 2182, 3662  
 Han, H. Y. 2861, 8204, 11256  
 Han, J. 9329, 9896  
 Han, K. K. 7465  
 Han, K. P. 11911  
 Han, M. J. 6599  
 Han, Q. F. 8498  
 Han, X. L. 8154  
 Han, Z. J. 9553  
 Hanada, K. 3529  
 Hanada, S. 494  
 Hanafi, A. 10787  
 Hanai, S. 1051  
 Hanawa, C. 5207  
 Hanazato, T. 6371, 8573  
 Hance, T. 2399, 7167  
 Hancock, A. 424  
 Hancock, D. L. 1796, 6945, 6967, 7291, 8315, 9084, 11011  
 Hancock, R. 10214  
 Hancy, R. 11347  
 Handa, H. 11269  
 Handa, S. K. 6531  
 Händel, J. 8334  
 Handique, R. 10399  
 Handley, D. T. 5538, 7832, 7835  
 Hänggi, A. 2033  
 Hangyel, L. 4458  
 Hanhimäki, S. 6745, 6750  
 Haniffa, A. M. 3665, 5435  
 Haniffa, M. A. 3010  
 Haniotakis, G. E. 1397, 6710  
 Hankawa, Y. 7494  
 Hanks, A. R. 10329  
 Hanks, L. M. 6753, 6814, 7836, 9972  
 Hanley, M. E. 11009  
 Hanley, R. S. 1738, 2874, 6097  
 Hanlon, C. C. 4735, 11982  
 Hanlon, J. J. 702  
 Hannan-Jones, M. A. 11062  
 Hanó, G. 2733  
 Hanozet, G. M. 4204, 9504  
 Hanrahan, S. A. 11305  
 Hanratty, M. P. 4328  
 Hanrieder, G. 2289  
 Hansen, B. M. 7435, 7777  
 Hansen, E. M. 8930  
 Hansen, J. D. 784  
 Hansen, L. D. 1988  
 Hansen, L. G. 3347  
 Hansen, L. M. 622, 2151, 3573  
 Hansen, L. O. 747, 1071  
 Hansen, M. 900, 7264  
 Hansen, P. 2560  
 Hanski, I. 1136, 4027  
 Hanson, F. E. 4073  
 Hanson, J. B. 1767  
 Hanson, P. 384  
 Hanssen, O. 1208  
 Hansson, B. S. 4360, 5834, 5920, 9191, 9657, 10169, 10188, 11145, 11694  
 Hansson, C. 4830, 4843, 8090  
 Hanton, W. K. 116  
 Hanula, J. L. 5376  
 Hanzawa, M. 2305  
 Hanzlik, T. N. 7457, 10411  
 Hao, H. H. 7859  
 Hao, S. 9233  
 Hapase, D. G. 1615  
 Happ, G. M. 8173  
 Haq, M. A. 1972  
 Haque, M. M. 3706  
 Haque, N. M. M. 11822  
 Haque, R. 3240, 3244  
 Hara, A. H. 784, 7965, 10996  
 Hara, E. 10838  
 Hara, H. 4048, 5659, 10976  
 Hara, K. 4191, 9489  
 Hara, N. 3320  
 Hara, S. 5882, 11181  
 Hara, T. 7538, 8165  
 Harada, A. 2305, 10768  
 Harada, H. 7981  
 Harada, K. 2971  
 Haraguchi, K. 1342, 10636  
 Harak, M. 2902  
 Harari, A. R. 3940  
 Harari, N. 1260  
 Harashima, S. 1395, 7630  
 Harborne, J. B. 885, 10017  
 Hardee, D. D. 707, 2637, 9257, 9960  
 Harden, L. 5372  
 Hardi, T. 2659  
 Hardie, J. 1394, 4020, 5038, 6410, 7081, 7735, 7773  
 Hardie, R. C. 5922, 7083  
 Hardin, B. 2772  
 Hardin, M. R. 7576  
 Hardman, J. M. 9839  
 Hardwick, D. F. 4863  
 Hardwick, S. 6510  
 Hardy, A. R. 5315  
 Hardy, I. 1978  
 Hardy, I. C. W. 952, 11441  
 Hardy, P. B. 10492  
 Hare, J. D. 665, 7628  
 Hare, J. F. 2000  
 Harel, M. 12009  
 Hargeby, A. 3081  
 Hargrove, W. L. 8651  
 Hariharan, I. K. 8182  
 Haris, A. 2946  
 Harish Chandra 5020  
 Haritos, V. S. 1334  
 Harkey, M. A. 10433  
 Harkness, W. L. 11731  
 Harlow, C. D. 4647  
 Harms, C. T. 7501  
 Harms, K. E. 8859  
 Harmsen, R. 185  
 Harper, J. K. 8731  
 Harper, M. W. 6027  
 Harrell, M. O. 6764  
 Harrington, J. A. 8551  
 Harrington, R. 1394, 3999, 5109, 10072  
 Harris, A. C. 4852, 5254  
 Harris, C. R. 10637  
 Harris, D. 337-338, 11909  
 Harris, D. L. 1573, 4364  
 Harris, G. L. 509, 783  
 Harris, H. C. 11726  
 Harris, I. 11327  
 Harris, J. P. 4578  
 Harris, K. 6018  
 Harris, K. F. 11071  
 Harris, L. R. 3971  
 Harris, M. K. 4533, 8727  
 Harris, R. J. 4713  
 Harris, W. J. 9924  
 Harris-Virgin, P. 6632  
 Harrison, B. 11674  
 Harrison, B. D. 7473-7474  
 Harrison, E. G. 8567  
 Harrison, J. F. 9334  
 Harrison, R. 9634  
 Harrison, R. G. 3888, 5984, 9111  
 Harrison, R. L. 9486  
 Harrison, S. 4772, 6192, 11014, 12004, 12052  
 Harrison, S. J. 3896  
 Harrison, T. 10991  
 Harrison, T. L. 4783  
 Harrower, B. E. 7827  
 Harry, J. L. 1966  
 Harry, M. 8856  
 Harshman, L. G. 4914, 7092  
 Hart, A. D. M. 2338, 8552, 11613, 11642  
 Hart, B. J. 7245  
 Hart, E. R. 1220  
 Hart, J. 9713  
 Hart, J. P. 6132  
 Hart, J. W. 7910  
 Hart, L. C. 11402  
 Hart, P. J. 7489  
 Hart, S. 11518  
 Harte, D. S. 9403  
 Harte, E. M. 6285  
 Hartenstein, V. 1034, 7013  
 Hartfelder, K. 116  
 Harth, C. E. 6042  
 Hartl, D. L. 1022, 4996, 5008  
 Hartley, I. C. 6132  
 Hartley, S. E. 738  
 Hartman, J. R. 1893  
 Hartman, T. P. V. 8229  
 Hartmann, G. 8872  
 Hartmann, T. 998, 10026  
 Hartnell, G. 10530  
 Hartsell, P. L. 6872  
 Hartwig, E. E. 2487  
 Hartwig, O. 7663  
 Haruguchi, T. 7699  
 Harvey, A. W. 3923  
 Harvey, G. T. 9123  
 Harvey, I. F. 3224, 3964, 3966, 9143  
 Harvey, J. A. 3224, 8387, 9143, 9145  
 Harvey, L. T. 6929  
 Harvey, P. M. A. 845  
 Harvey, R. G. 2316  
 Harvey, T. 8627  
 Harvey, T. L. 1421, 9685  
 Harvey, W. R. 83, 107, 976, 2927, 2929, 4949, 5896  
 Harwalkar, M. L. 11793  
 Harwood, J. L. 8807  
 Harwood, L. M. 144  
 Harwood, R. W. 7659  
 Harwood, R. W. J. 7242, 9380  
 Harwood, S. H. 4945  
 Hasan, R. 11532  
 Hasan, S. A. 1862, 5843  
 Hasbun, C. 11701  
 Hasegawa, A. 10573, 10635  
 Hasegawa, E. 3192, 3875, 8352  
 Hasegawa, K. 4456  
 Hasegawa, M. 1891-1892, 2766, 6786, 7572, 8100, 9989  
 Hasegawa, R. 6360  
 Hasegawa, S. 844  
 Hasegawa, T. 2972  
 Häser, C. L. 896  
 Hashem, M. Y. 1770, 5757-5758  
 Hashim, H. 575  
 Hashimoto, I. 11492



- Hashimoto, K. 2305  
 Hashimoto, K. I. 6030  
 Hashimoto, S. 9062, 9966  
 Hashimoto, Y. 4150, 4201, 10405  
 Hasibuan, R. 9502  
 Hasken, K. H. 8631  
 Haslett, J. R. 9739  
 Hasnain, S. E. 7128  
 Hassall, M. 1089, 1422, 3427, 7244  
 Hassan, A. A. 3359, 4320  
 Hassan, A. T. 6568  
 Hassan, E. 1503  
 Hassan, H. A. H. 6376  
 Hassan, S. 631  
 Hassan, S. A. 2335, 5775, 9044  
 Hassanali, A. 3836, 5122, 5273, 6044, 9179, 10680, 11300  
 Hassell, M. P. 1217, 2112, 11354  
 Hassner, A. 12009  
 Hasson, E. 2947, 9256, 10237  
 Hasson, O. 7221  
 Hassoun, E. A. 2287  
 Hastings, F. L. 2703, 3337, 9586-9587, 9983  
 Hastings, J. M. 7183  
 Hata, T. Y. 7965, 10996  
 Hatakeyama, M. 3803, 7014  
 Hatakeyama, S. 475  
 Hatakoshi, M. 5383  
 Hatano, R. 7538  
 Hatch, D. J. 4392  
 Hatcher, P. E. 4784, 10958, 11012  
 Hatchett, J. H. 2416, 6872-6873, 9687  
 Hatfield, J. L. 2065  
 Hatman, M. 533  
 Hatsukade, M. 4952  
 Hatt, P. J. 2898  
 Hatterman-Valenti, H. 6902  
 Hattingh, V. 8271  
 Hattori, Y. 3331  
 Hattum, B. van 6370  
 Hatzopoulos, P. 10233  
 Haubruge, E. 6901, 10035, 11004  
 Haug, T. 6567  
 Hauk, H. 4347, 10968  
 Haukioja, E. 400, 1658, 4693, 6745, 6750, 8867-8868, 9181  
 Haunerland, N. H. 5905, 7097, 10181  
 Haupt, J. 8136  
 Hauptmann, G. 5999  
 Hauschteck-Jungen, E. 129  
 Häuser, C. L. 908, 944, 7009  
 Hauser, E. 5028  
 Hauser, M. T. 11138  
 Hauser, R. 11354  
 Hausmann, B. 1701, 2709  
 Hautala, E. L. 11562  
 Havel, C. M. 1915  
 Haverkort, B. 401  
 Haverty, M. I. 5797  
 Havir Singh 9912  
 Havlíčková, H. 6422, 9679, 9684  
 Havron, A. 7578, 8383  
 Hawkes, J. G. 9786  
 Hawkeswood, T. J. 3667  
 Hawkins, B. A. 1278, 3293, 10287, 11420  
 Hawkins, C. A. 1321  
 Hawkins, J. W. 10403  
 Hawksworth, D. L. 6919, 6939  
 Hawthorne, A. 7244  
 Hay, D. B. 7414  
 Hayakawa, J. 12067  
 Hayakawa, T. 4201  
 Hayakawa, Y. 171, 6189, 7098  
 Hayashi, H. 110, 6481  
 Hayashi, J. H. 5910  
 Hayashi, M. 6789, 9048  
 Hayashi, N. 10676, 11186  
 Hayashi, S. 4983  
 Hayashi, Y. 370, 815, 4160  
 Hayashiya, K. 2140  
 Hayat, M. 18, 1819, 7284, 9098  
 Hayat, R. 2082  
 Hayden, M. A. 3887  
 Hayes, A. J. 6632, 6847  
 Hayes, E. C. 5100, 8132  
 Hayes, J. L. 11976  
 Hayes, L. E. 9629  
 Hayes, L. M. 1076  
 Hayes, T. K. 2931, 5902, 5938  
 Haymer, D. S. 169, 1049, 5976, 5987  
 Haynes, K. F. 3824  
 Haynes, S. R. 1930  
 Hazarika, L. K. 4017, 5226  
 Hazel, W. 10131  
 Hazes, B. 11228  
 Hazzaa, N. I. 6298  
 Hazzard, R. V. 4496  
 He, C. G. 9344  
 He, J. 4854, 8782, 9094  
 He, J. H. 9416  
 He, K. H. 8755  
 He, S. M. 9455  
 He, X. T. 8768  
 He, Y. 11207  
 He, Y. Y. 7682  
 He, Z. 8279  
 He, Z. H. 7354  
 Head, G. 9580, 9582, 9785  
 Header, F. L. 6388  
 Headrick, D. H. 829, 2726, 5016, 11798, 12059  
 Heagle, A. S. 5394  
 Heagler, A. M. 6483  
 Heale, J. B. 1249, 8441  
 Healey, V. 7027  
 Healy, M. J. 1959, 8224  
 Heaps, K. 8534  
 Heard, C. S. 5107  
 Heard, T. A. 8980, 12061-12062  
 Hearn, C. J. 9888  
 Hearne, J. W. 2609  
 Heath, A. G. 1378  
 Heath, R. G. M. 1370  
 Heath, R. R. 673, 1572, 3909, 4364, 4366, 5547, 7891, 10172, 11693  
 Heather, N. W. 6106  
 Heaton, S. N. 3355-3356  
 Hebanowska, E. 4974  
 Hebda, C. 3855  
 Heberlein, U. 8182  
 Hebert, C. E. 5332  
 Hebert, P. D. N. 6007, 8230  
 Hecht Orzack, S. 1207  
 Heckel, D. G. 4914, 9510, 11592  
 Heckman, J. L. 7183  
 Hecnar, S. J. 9606  
 Hedden, R. L. 4733  
 Hedderich, J. 5341  
 Hedenström, E. 7949, 10188, 11691  
 Hedin, P. A. 1404, 6401, 8145  
 Hedlund, K. 1072, 3956  
 Hedrick, P. W. 10230  
 Hedström, I. 1250, 5548  
 Hedström, L. 10298  
 Hedwig, B. 9195  
 Heederik, D. 11636  
 Heer, H. de 2243  
 Hees, W. W. S. van 771  
 Heest, H. P. N. F. van 11818  
 Hegazy, H. A. 2626  
 Hegde, S. N. 1060, 9224  
 Heger, W. 11666  
 Hegwood, C. P., Jr. 5542  
 Hegy, G. 1916  
 Heidari, M. 2134, 3624  
 Heidel, G. B. 4400  
 Heideman, P. D. 671  
 Heidemann, G. 5341  
 Heidger, C. 1650  
 Heie, O. E. 5086  
 Heijbroek, W. 11572, 11954  
 Heijerman, T. 1114  
 Heikkinen, E. 7182  
 Heilmann, P. E. 7919  
 Heilporn, S. 3860  
 Heimbach, F. 3739  
 Heimbach, U. 1103, 2335, 4057, 4293, 5068, 5166, 6369, 9787  
 Heimpel, G. E. 73, 4102, 6195, 7198, 8269  
 Hein, G. L. 7649, 8633  
 Heine, S. 950  
 Heineck, M. A. 4144  
 Heiniger, P. 5215  
 Heiniger, U. 749  
 Heins, L. J. 8585  
 Heinisch, E. 3322  
 Heinje, D. 11208  
 Heinlein, U. A. O. 11254  
 Heino, T. I. 7121  
 Heinrichs, E. A. 1290, 7694, 8044  
 Heinstra, P. W. H. 3821, 4919, 4994, 8134  
 Heinz, D. J. 2800  
 Heinz, G. H. 8537  
 Heinz, K. M. 4659, 4747, 8942, 9441, 10809  
 Heinze, J. 1168, 3880, 5140, 7174, 10200, 10234  
 Heisler, C. 5401, 10254  
 Heiss, E. 5390  
 Heitland, W. 5656  
 Helb, H. W. 1122  
 Helbig, J. 5739  
 Helbling, H. 3305  
 Helden, A. J. 5387  
 Helden, M. van 7780, 11818  
 Helenius, J. 3203, 7644  
 Heliövaara, K. 7172  
 Heller, J. 1132, 4901  
 Heller, K. G. 2891  
 Hellmann, M. 10842  
 Hellou, J. 1350  
 Hellqvist, C. 761, 2702  
 Hellqvist, S. 390  
 Hellrigl, K. 12008  
 Helmi, N. 1715  
 Helms, K. R. 3026  
 Helsing, P. van 915  
 Helson, B. 2648  
 Helson, B. V. 394, 9600  
 Helvig, C. 5884  
 Helyer, N. 2335  
 Helyer, N. L. 625  
 Hemerik, L. 3968  
 Heming, B. S. 5765  
 Heminway, B. R. 4156  
 Hemmen, C. 2405, 2610  
 Hemmen, J. J. van 4270, 7593  
 Hemmerling, C. 3394  
 Hemming, J. D. C. 11990  
 Hempfling, W. 7885  
 Hemptinne, J. L. 7734  
 Henatsch, B. 1101  
 Henderson, B. 4925  
 Henderson, G. 3093, 9474  
 Henderson, G. S. 229  
 Henderson, I. F. 7099, 11600  
 Henderson, J. D. 443, 10589  
 Henderson, R. C. 6695  
 Henderson, S. C. 1879  
 Hendrichs, J. 977, 4386, 11893  
 Hendrichs, M. A. 4386  
 Hendricks, D. E. 5992  
 Hendricks, L. C. 6700  
 Hendrickson, J. E. 5970  
 Hendrickx, K. 7085  
 Hendrix, D. L. 2911, 2918, 4915  
 Hendrix, W. D. 706  
 Hendrix, W. H., III 5070  
 Henegar, R. B. 3004  
 Henneberry, T. J. 706, 4663-4664, 6077, 8428, 10794  
 Hennessee, K. 3743  
 Henneman, M. L. 11311  
 Hennessey, M. K. 3957, 4222, 10330, 10567  
 Hennig, R. M. 985, 5026  
 Hennig, W. 1015  
 Hennigan, B. B. 83  
 Hennigar, P. 4321  
 Henning-Helbig, S. M. I. 7436  
 Henrich, V. C. 3887  
 Henry, A. 10818  
 Henry, C. S. 3975, 3981  
 Hensbergen, H. J. van 8671  
 Henze, M. 1428  
 Heong, K. L. 2455, 2464, 7702, 7713  
 Heppner, J. B. 3551, 7482, 10879  
 Heraty, J. M. 9073, 11139  
 Herber, D. J. 9026  
 Herbert, P. D. N. 5994  
 Herbst, J. 5656  
 Herczig, B. 2733  
 Herder, S. 1598  
 Herdt, R. W. 416  
 Herle, P. S. 4615, 7716  
 Herman, R. P. 6822  
 Herman, T. J. B. 6605  
 Hermann, P. M. 6218  
 Hermans, M. 11605  
 Hermawan, W. 7985  
 Hermet, M. 10951  
 Hermida, J. 10283  
 Hernádi, L. 118  
 Hernández, E. 11959  
 Hernandez, G. 10987  
 Hernández, J. V. 5574, 8254  
 Hernández, L. 490  
 Hernández, L. M. 466-467, 3382, 5345  
 Hernández, M. 4642, 5014  
 Hernández, P. 490  
 Hernandez-Bautista, B. 6400  
 Hernández-Crespo, P. 330, 2173, 7329  
 Hernandez-Ortiz, V. 10092  
 Hernández-P., N. A. 8716  
 Herold, D. 1505  
 Heron, D. 11777  
 Herr, J. C. 1216  
 Herráez, M. P. 10622  
 Herráez, M. Paz 7587  
 Herrbach, E. 9914  
 Herre, E. A. 4581  
 Herrell, J. 10131  
 Herren, H. R. 5164  
 Herrera, A. 2298, 5336  
 Herrera, J. C. 4068  
 Herrera, R. J. 161  
 Herring, C. P. 649  
 Hermann, B. G. 11239  
 Herrmann, C. 1007  
 Herrmann, R. 9441  
 Herron, G. 2279  
 Herron, G. A. 5608  
 Hersperger, E. 1055  
 Hertel, H. 3236, 7025, 7492, 11698  
 Hertz, J. 2645  
 Hertzberg, R. P. 349  
 Hertzman, C. 5342  
 Herzog, E. M. 1858  
 Herzog, G. A. 6735, 10757  
 Hesik, D. 7966-7967, 10011  
 Hesler, L. S. 1596, 6456, 8667  
 Heslip, T. R. 8208, 9249  
 Hesperheide, H. A. 3110  
 Hesselberg, R. J. 3343  
 Hesson, D. O. 5353  
 Hetru, C. 1916, 8117, 8169  
 Heurck, P. van 8870  
 Heuvel, J. F. J. M. van den 3271  
 Heuvel, J. van den 10463  
 Hevers, W. 5922  
 Hewings, A. D. 3436, 9692  
 Hewitt, G. M. 1901, 2990, 3092, 3908, 8267, 9134  
 Hewitt, H. G. 3723  
 Hewitt, P. H. 8678  
 Hey, J. 1004  
 Heydon, S. L. 1815  
 Heydová, A. 4157  
 Heyer, W. 1479, 7738, 8695  
 Heyes, J. 8031  
 Heyman, R. A. 7100  
 Hibbard, B. E. 7681, 9705  
 Hickel, E. R. 1544, 3995, 4603, 4605, 7856, 8467  
 Hickey, C. W. 493  
 Hickey, D. A. 7124, 9089  
 Hickle, L. A. 10506  
 Hickman, D. L. 10146



- Hickman, J. M. 7242, 7676  
 Hicks, A. L. 6518  
 Hidaka, K. 3460  
 Hidaka, S. 3529  
 Hidalgo, A. 7145  
 Hidayat, P. 4971  
 Hiebert, E. 3282  
 Hiemstra, W. 401  
 Higa, Y. 10792  
 Higashi, S. 6155  
 Higashiura, Y. 10976  
 Higgins, L. 957  
 Higgins, L. E. 2103  
 Higgins, R. A. 4459, 6520, 10749  
 Higgins, R. J. 443  
 Higgins, T. J. V. 2777  
 Higginson, F. R. 578  
 Highley, E. 2816-2817, 6909  
 Higley, L. G. 2481, 10618, 10760, 12089  
 Hignett, R. R. 2246  
 Higo, K. I. 3529  
 Higuchi, H. 7166, 10761  
 Hiisaar, K. 2902  
 Hiji, N. 7948, 8847  
 Hikichi, Y. 10993  
 Hilbert, G. 9631  
 Hilburn, D. J. 6103  
 Hildebrand, D. F. 9756  
 Hildebrand, J. G. 5909-5910, 7076  
 Hildebrand, O. 11706  
 Hildenhausen, R. 10796  
 Hilder, V. A. 1288, 2232, 2621, 5269, 8127, 8478, 8614, 9945  
 Hilf, M. 2080  
 Hilgenfeld, R. B. 9245  
 Hilje, L. 602, 626-629, 7528, 9777  
 Hilker, M. 972, 1657, 1914, 7202, 10205  
 Hill, A. R. C. 5762  
 Hill, A. S. 5750  
 Hill, B. D. 9680  
 Hill, D. I. 2313  
 Hill, D. S. 2827  
 Hill, J. E. 4170  
 Hill, J. K. 11994  
 Hill, M. G. 6695  
 Hill, M. J. 2361  
 Hill, M. P. 8966  
 Hill, R. A. 6109  
 Hill, R. L. 531, 6847, 11013  
 Hill, S. A. 10687  
 Hill, S. B. 4549  
 Hill, W. G. 5971  
 Hillman, J. R. 2266  
 Hills, D. J. 9389  
 Hills, L. A. 2758  
 Hilt, M. 1642  
 Hilton, R. J. 9836  
 Himantharaj, M. T. 10395  
 Himajima, M. 4163  
 Himeno, K. 3769  
 Himeno, M. 5231  
 Hincal, P. 1470, 1482  
 Hinchigeri, S. B. 9487  
 Hindy, M. 2626  
 Hinkle, G. 10362  
 Hinks, C. F. 8177  
 Hinomoto, N. 87  
 Hinton, D. E. 10649  
 Hintze-Podufal, C. 939  
 Hinz, T. 3159  
 Hiol, F. H. 5676  
 Hippe, C. 1535, 5374  
 Hirabayashi, T. 1867  
 Hirahara, Y. 7572  
 Hirai, H. 4456, 11685  
 Hirai, K. 4436-4437, 7539  
 Hirai, T. 3359  
 Hirai, Y. 4290, 11751  
 Hiraizumi, K. 1053  
 Hiraldo, F. 3382  
 Hiramatsu, A. 3142  
 Hirano, C. 632, 4535, 5507, 7709, 10171, 11821  
 Hirano, H. 7031  
 Hirano, K. 6529  
 Hirano, M. 5308  
 Hirao, T. 9319  
 Hiraragi, T. 6643  
 Hirashima, A. 1324, 4931, 6295, 8119, 8121  
 Hirata, K. 11568  
 Hirata, N. 3679  
 Hiratsuka, Y. 4725, 10947  
 Hirayama, K. 3320  
 Hiremath, I. G. 2678, 3447, 4430, 4485, 11820  
 Hiremath, S. 165  
 Hiripi, L. 1912  
 Hirling, H. 4925  
 Hiromoto, Y. 10604  
 Hirono, Y. 1233  
 Hirose, E. 10758  
 Hirose, S. 11251  
 Hirose, T. 10553  
 Hirota, K. 7073  
 Hirota, T. 4304  
 Hirowatari, T. 11094  
 Hiroyoshi, S. 7089  
 Hirsch, H. 8221  
 Hirsch, H. B. V. 3983  
 Hirschfelder, A. 942  
 Hirschheydt, J. V. 9993  
 Hirschmann, W. 8070-8071  
 Hirst, D. J. 4408  
 Hirst, M. 8439  
 Hirst, M. L. 6241  
 Hirte, W. 7428, 7486  
 Hiruma, K. 8510, 11217, 11260  
 Hisano, T. 11680  
 Hishida, T. 978  
 Hiss, R. H. 5975  
 Hitchin, G. 457  
 Hiyakawa, T. 3993  
 Hizue, M. 7582  
 Hlywka, J. J. 4489  
 Hmidi, M. S. 9900  
 Ho, B. 6658  
 Ho, C. C. 2536, 5544  
 Ho, C. T. 3607  
 Ho, H. Y. 11215  
 Ho, J. S. 2055, 11665  
 Ho, S. H. 5271, 9942  
 Hobbs, R. J. 3636, 7370  
 Hobson, K. R. 5644  
 Hochberg, M. E. 1278, 3293  
 Hochstenbach, R. 1015  
 Hochuli, D. F. 1859  
 Hockland, S. H. 6917  
 Hodek, I. 7359  
 Hodek, J. M. 878  
 Hodge, G. R. 6782  
 Hodge, K. T. 11474  
 Hodge, N. C. 10449  
 Hodges, R. W. 9356  
 Hodgetts, R. B. 2986, 8208, 9249  
 Hodgson, C. J. 4870  
 Hodgson, E. 10555  
 Hodgson, J. G. 6083  
 Hodgkinson, I. D. 912, 4006, 7027, 7126, 8970, 11771, 11994  
 Hodkova, M. 3951  
 Hoebeke, E. R. 3658, 3826, 5681  
 Hoek, R. M. 135  
 Hoekstra, J. A. 5318  
 Hoekstra, J. M. 10930  
 Hofbauer, A. 4959  
 Hoffman, A. A. 6455  
 Hoffman, D. J. 8540  
 Hoffman, G. D. 8912  
 Hoffman, J. A. 8117  
 Hoffman, K. H. 5930, 11219  
 Hoffman, K. M. 7012, 7161  
 Hoffman, L. D. 3482  
 Hoffmann, A. 230, 11757  
 Hoffmann, A. A. 1009, 7115, 9260, 10267, 11704  
 Hoffmann, F. M. 154  
 Hoffmann, G. 3853  
 Hoffmann, J. A. 1916, 7142, 8169  
 Hoffmann, J. H. 6855  
 Hoffmann, K. H. 278, 1906, 2885, 3852-3853, 8167  
 Hoffmann-Campo, C. B. 1471, 2488  
 Hoffmaster, D. K. 2953  
 Hofmann, F. 5242  
 Hofmeyr, J. H. 9539  
 Hofsvang, T. 1071, 5384  
 Höfte, H. 2162  
 Hogan, G. R. 6079  
 Hogan, L. 5623  
 Hogan, P. S. 7500  
 Hogan, T. W. 8350  
 Högberg, H. E. 7949, 10188, 11691  
 Hogg, D. B. 320  
 Hogmire, H. W. 9835  
 Högstedt, G. 11997  
 Hogue, C. L. 6923  
 Høgardt, K. 7601  
 Höhl, H. U. 8689  
 Hohmann, C. L. 1337  
 Höhn, H. 1536, 1540, 5528-5529, 6647, 8750, 11866  
 Hohn, M. E. 10491  
 Hoikkala, A. 7182, 7192, 11304, 11328  
 Højrup, P. 5944-5945, 7030, 8118  
 Hoke, R. A. 1345, 8580, 10653-10654  
 Hokkanen, H. 2335, 7415  
 Hol, E. H. 7598  
 Holadová, K. 11712  
 Holanda, J. S. de 717  
 Holbrooke, A. E. 5717  
 Holcomb, E. J. 6920  
 Holden, C. P. 4911  
 Holden, H. M. 10181  
 Holden, I. 10343  
 Holder, F. 1916  
 Holdom, D. G. 2307, 9496  
 Holecová, M. 3648, 7802  
 Holen, B. 10661  
 Holland, J. M. 436, 7496, 7645, 7660  
 Holland, P. T. 493, 5735  
 Hölldobler, B. 2917, 3930, 5034, 5128, 5133, 5140, 7188, 9045, 10234, 11193  
 Höller, C. 1403  
 Holler, T. C. 1573, 4364  
 Holliday, N. J. 4429, 9397  
 Hollier, J. A. 3029, 3633  
 Hollingshaus, G. J. 3338  
 Hollingsworth, C. S. 11551  
 Hollingsworth, R. G. 8927-8928, 11964, 11967  
 Hollingworth, R. M. 440, 1333, 2278, 5279-5280  
 Hollis, D. 10295  
 Hollister, B. 3841, 9197, 10681  
 Holloman, S. 10044  
 Holloway, G. J. 1018, 5842, 7116, 9259  
 Holloway, J. D. 34, 9056  
 Holloway, J. W. 11966  
 Holloway, R. J. 805  
 Hollstein, A. 3393  
 Holman, G. M. 5124  
 Holman, J. 4888  
 Holmes, B. 2211  
 Holmes, E. C. 11266  
 Holmes, P. R. 8289  
 Holmes, S. B. 1374  
 Holmgren, R. 11250  
 Holmquist, O. 8862  
 Holopainen, J. K. 3203, 4738, 5664-5665, 7937, 11562  
 Holoubek, I. 7607  
 Holst, H. 5527, 6626  
 Holstege, D. M. 11402  
 Holsten, E. H. 771, 2707, 8897, 9586  
 Holt, R. D. 1217  
 Holterman, H. J. 3406  
 Holtkamp, R. H. 823  
 Holtan, K. C. 672  
 Holtzman, G. I. 2765, 6845  
 Holyoak, M. 191  
 Holz, F. 3430, 7657  
 Holzschuh, C. 2043, 6942, 6946  
 Horn, J. L. 6753  
 Homberg, U. 5914, 9189  
 Hominick, W. M. 8406  
 Hommes, M. 9541, 9803, 10796, 11817  
 Honda, H. 3769, 12043  
 Honda, J. Y. 11435  
 Honda, K. 10676, 11186  
 Hondo, M. 10380  
 Honée, G. 2233  
 Honegger, H. W. 7021  
 Honěk, A. 555, 9284, 9335  
 Honer, M. R. 1464, 4455  
 Honey, M. R. 6, 3102  
 Honeycutt, R. J. 9497  
 Hong, F. L. 3090  
 Hong, H. Z. 10422, 11545  
 Hong, J. J. 11890  
 Hong, K. J. 5487, 10226  
 Hong, K. W. 1238  
 Hong, Y. S. 9167  
 Hong, Z. Y. 6245  
 Honing, M. 10356  
 Honkanen, T. 400  
 Honma, K. 150, 2613, 4952, 10908  
 Honnor, L. 785  
 Honrubia, M. P. 10622  
 Honrubia, M. Pilar 7587  
 Hook, T. van 3917  
 Hooker, J. E. 4381  
 Hooker, M. E. 3202  
 Hooper, G. H. S. 9527  
 Hooper, J. E. 4992  
 Hooper, M. J. 10596  
 Hoopingarner, R. 11448  
 Hoover, K. 8913  
 Hope, A. S. 6781  
 Hopf, H. 11667  
 Hopkins, J. D. 937  
 Hopkins, R. J. 4512  
 Hopkins, S. P. 10502  
 Hopkins, T. L. 2905, 8143, 8172  
 Hopkins, W. L. 6348  
 Höpli, H. U. 1536, 1540, 5528-5529, 6647, 11866  
 Hopmann, R. 5969  
 Hoppe, H. 10305  
 Hopper, K. R. 388, 9676, 11717  
 Horabin, J. I. 4997  
 Horak, I. G. 8307  
 Horak, M. 5087  
 Horard, B. 7377  
 Horel, A. 1204  
 Hori, E. 9575  
 Hori, H. 4163, 4165, 6119, 6251, 7456, 7463, 8718, 10418  
 Hori, K. 9270  
 Hori, M. 7981  
 Hori, Y. 6944, 12042  
 Horie, H. 12036  
 Horie, T. 4276  
 Horiike, M. 632, 4535, 5507, 7709, 10171, 11821  
 Horikoshi, M. 1039  
 Horitsu, H. 3003  
 Hormiga, G. 33  
 Horn, D. 9031  
 Horn, M. 7651  
 Hornbuckle, K. C. 3390  
 Horne, P. A. 1316  
 Horner, J. D. 8974  
 Hörner, M. 222  
 Horner, M. A. 7144  
 Horng, S. B. 552, 2075, 10718  
 Hornsby, A. G. 406  
 Horowitz, A. R. 4218, 4263, 5612, 6739, 8512, 8621, 9956  
 Horowitz, J. 417  
 Horseman, G. 115  
 Horst, D. J. van der 2083, 11199  
 Horstman, S. W. 1372, 10571  
 Horstmann, K. 2089  
 Horton, D. L. 6654  
 Horton, D. R. 4563, 8766, 10346  
 Horvat, G. 1619  
 Horvat, R. J. 5509  
 Horváth, A. 2733



- Horváth, G. J. 3117-3118  
Hosaka, A. 10829  
Hoschele, W. 2219  
Hoshiba, H. 4987  
Hosken, D. 3962  
Hosking, G. P. 1646  
Hoskovec, M. 11687  
Hosman, K. P. 4720  
Hosmer, D. W. 5655  
Hosmer, T. 648  
Hosoda, A. 10551  
Hosogai, T. 9116  
Hosokawa, A. 7540  
Hosokawa, T. 6220  
Hossaert-McKey, M. 10364  
Hossain, M. A. 1509  
Hossain, M. M. 11647, 11822  
Hossain, S. M. Z. 12074  
Hosseini, M. 3615  
Hostert, E. E. 8285  
Hostetter, D. L. 11812  
Hostettler, N. C. 10134  
Hosur, M. V. 2193  
Hothem, R. L. 11614, 11624  
Hotta, Y. 89  
Hou, J. W. 8821  
Hou, Q. M. 10893  
Hou, R. F. 341-342, 4150  
Hou, R. H. 241  
Hou, S. L. 7214  
Hou, T. Q. 5823  
Hou, W. W. 3035, 8279, 10889  
Hou, Y. J. 10129  
Hou, Y. M. 9911  
Hougen-Eitzman, D. 8098, 11880  
Hough-Goldstein, J. A. 4102, 6195, 9775  
Houle, D. 2953  
House, K. 8458  
House, W. A. 5112  
Houssman, J. G. 7043  
Houssou, A. 10791  
Houston, A. I. 2104  
Houston, D. R. 2667  
Houston, W. 11920  
Houten, Y. M. van 8452  
Houx, N. W. H. 6608  
Hövmeyer, K. 7263  
Hovore, F. T. 10315  
How, S. T. 11023  
Howard, C. D. 11229  
Howard, C. R. 7820  
Howard, D. J. 6002, 7090  
Howard, F. W. 6516  
Howard, J. J. 5652, 8259  
Howard, R. J. 6925  
Howard, R. W. 11229  
Howden, A. T. 6526  
Howden, H. F. 2854, 4851  
Howe, A. R. 9713  
Howe, G. E. 1343  
Howe, T. K. 2716  
Howe, W. H. 7225  
Howell, C. L. 3651  
Howell, J. F. 11858  
Howell, J. O. 2  
Howie, J. H. 11764  
Howlader, A. J. 4943, 6898  
Howlader, M. A. 3566  
Howling, G. G. 3999, 5109  
Howse, P. E. 4794, 6279, 6487, 7207  
Hoy, C. W. 9580, 9582, 9785  
Hoy, M. A. 4099, 4121-4122, 5257, 5334, 5518, 7816, 8203, 9381, 9577, 12088  
Hoy, R. R. 981, 3953, 6165  
Hoyle, R. 10683  
Hoyo, N. del 5339  
Hradský, P. 11019  
Hrašovec, B. 8873  
Hrdý, I. 4349, 5532, 10858  
Hrubík, P. 1709  
Hruska, A. J. 6281, 10601  
Hsieh, C. C. 2339  
Hsieh, F. K. 341-344, 2146  
Hsieh, L. S. 5235  
Hsieh, T. 1925  
Hsin, C. Y. 8504  
Hsu, C. C. 3354  
Hsu, C. L. 177  
Hsu, E. L. 368  
Hsu, T. H. 368  
Hsu, Y. F. 5648  
Hsuan, S. L. 2074, 2213, 10407  
Hu, B. K. S. 7965, 10029, 10996  
Hu, C. 2119, 8421, 9453, 9529, 9954  
Hu, G. 4448  
Hu, G. W. 2446  
Hu, J. C. 9735  
Hu, M. 7635  
Hu, M. J. 11521  
Hu, M. Y. 6328  
Hu, N. T. 4150  
Hu, Q. H. 4332  
Hu, Q. S. 6491  
Hu, S. Q. 9590  
Hu, W. M. 359  
Hu, X. G. 5272  
Hu, X. P. 8069  
Hu, Y. S. 9590  
Hua, G. 2908  
Huang, A. K. 10927  
Huang, B. C. 3090  
Huang, B. Z. 7373  
Huang, C. C. 5019, 10885  
Huang, C. H. 10837  
Huang, C. P. 11573  
Huang, D. 902  
Huang, D. L. 6492  
Huang, D. P. 10730  
Huang, F. Y. 10680  
Huang, G. W. 6864  
Huang, H. 4261, 7756, 11531  
Huang, H. J. 10875  
Huang, H. W. 6552, 8495  
Huang, H. X. 9830  
Huang, J. 3569  
Huang, J. R. 11525  
Huang, J. X. 10734  
Huang, J. Z. 8822  
Huang, K. 256  
Huang, L. W. 4128, 10097  
Huang, M. C. 2622  
Huang, M. D. 668  
Huang, P. L. 8793  
Huang, P. Z. 7682  
Huang, Q. H. 9590  
Huang, R. C. 3318, 8613  
Huang, R. H. 2447  
Huang, R. X. 10129  
Huang, S. D. 9889  
Huang, S. S. 5689  
Huang, T. L. 3098, 8346  
Huang, W. Y. 6385  
Huang, W. Z. 3654  
Huang, X. F. 8892  
Huang, X. P. 1304, 4507, 10012  
Huang, Y. 5995, 8931  
Huang, Y. H. 8931  
Huang, Y. K. 10927  
Huang, Y. P. 10675  
Huang, Y. T. 2622  
Huang, Y. Y. 10875  
Huang, Z. L. 8662  
Huang, Z. R. 359  
Huang, Z. X. 10730  
Huang, Z. Y. 6041, 9848  
Hubbard, E. E. 4757  
Hubbard, S. F. 3964, 3966  
Hubbes, M. 11433  
Huber, F. 115, 1098, 5026  
Huber, J. 10358  
Hübner, G. 7204  
Huddleston, E. W. 5701  
Huddleston, T. 1212, 4112  
Hudon, M. 4411  
Hudson, J. B. 3597  
Huebner, E. 993  
Huemer, P. 3761, 8072, 11107  
Huesing, J. E. 4810  
Huey, R. B. 8246  
Huffaker, C. B. 7870  
Huffman, R. L. 9958  
Hugar, P. 4650  
Hugentobler, U. 7518  
Huger, A. M. 1282  
Hughes, G. 10496  
Hughes, G. M. 5337  
Hughes, J. M. 2964  
Hughes, J. P. 3964, 3966  
Hughes, K. A. 1058, 2953, 5998  
Hughes, L. 3061  
Hughes, L. A. 4136, 10810  
Hughes, M. A. 8637  
Hughes, P. R. 2175  
Hughes, R. D. 8637  
Huh, E. Y. 11120-11121  
Hühnerfuss, H. 458, 2351, 8586  
Hui, C. C. 11250  
Hui, F. G. 10422  
Hui, Y. 3997, 10965  
Huidobro, J. F. 8572, 9601  
Huignard, J. 228, 3498, 6899, 12086  
Huijbregts, A. W. M. 11572, 11954  
Huis, A. van 3725, 10277  
Huisman, P. W. T. 7332  
Hukuhara, T. 4148, 5208  
Hulka, B. 482  
Hull, L. A. 6635, 6640, 7819, 9838, 10581, 11846, 11849  
Hullé, M. 4032  
Hulleberg, T. 5966  
Hulley, P. E. 8966, 8976  
Hulme, M. 4718  
Hulme, M. A. 773  
Hulme, P. E. 5451  
Hultmark, D. 148  
Humber, R. A. 2183, 4181, 5658, 11474  
Humble, L. M. 4745, 8236, 10489  
Humphrey, H. 6363  
Humphrey, J. A. C. 5927  
Humphreys, I. C. 5493  
Huneke, J. 7408  
Hung, C. C. 3568  
Hung, C. F. 9158  
Hung, J. K. 2606  
Hung, S. Y. 375-376, 7447  
Hung, T. H. 2606  
Hung, W. K. 3278  
Hungary, Plant Protection Institute 2389  
Hunt, D. 5279  
Hunt, D. F. 11201  
Hunt, D. W. A. 8732  
Hunt, M. B. 3415  
Hunt, R. E. 5661, 7190  
Hunt, T. E. 10760  
Hunter, A. F. 2018, 9109  
Hunter, D. M. 7821  
Hunter, E. 10427  
Hunter, J. E. 8472  
Hunter, M. D. 1671, 7819  
Hunter, M. S. 7344  
Hunter, P. E. 10078  
Huntley, S. L. 8590-8591, 9635  
Hunziker, P. 11232  
Hupperich, K. 5132  
Hurban, P. 8225  
Hurd, B. H. 9964  
Hurd, H. 9210  
Hurd, L. E. 210, 226, 4035, 10382  
Hurej, M. 4318, 8798  
Hurr, B. 11569  
Hürka, K. 947  
Hurka, K. 8055  
Hurkmans, W. 897  
Hurlbert, R. E. 5206  
Hurle, K. 2368  
Hurley, C. 11910  
Hurner, G. P. 10533  
Hurny, J. 1362  
Huroni, S. 2304  
Hurst, G. D. D. 2197, 3205, 11423  
Hurst, L. D. 4984  
Hurst, R. W. 4134  
Hurter, J. 7080  
Hussain, S. 1366  
Husband, R. W. 8364  
Huso, M. 3691  
Hussain, M. D. 6138  
Hussain, M. M. 2785, 6375  
Hussain, S. 3692, 6499, 10741  
Hussain, T. 1609, 3023, 3619, 6620, 6887, 9000  
Hussein, A. H. 5602  
Hussein, E. H. A. 3387  
Hussein, H. E. 206  
Hussein, I. A. A. 6437, 8638  
Hussein, M. H. 3361  
Hussein, M. L. 9675  
Hussein, M. L. A. 6438, 6451, 10702  
Hussell, D. J. T. 10655  
Hustert, R. 9290  
Hutchings, A. 1405  
Hutchings, S. O. 6638  
Hutchinson, J. D. 1353  
Hutchinson, L. A. 4410  
Hutchison, W. D. 8331, 9579, 10708-10709  
Huth, C. J. 2722  
Huth, W. 548  
Hutter, P. 3885  
Huusela-Veistola, E. 3369  
Huw, R. K. 790  
Hwang, J. S. 3568  
Hwang, S. J. 1238  
Hwang, S. Y. 9974  
Hwang, Y. S. 11530  
Hyche, L. L. 9282  
Hyde, D. 4950  
Hyder, M. 11756  
Hyon, S. W. 2522  
Hytinen, H. 7937  
Hyun, J. S. 5526, 11748  
Hywel-Jones, N. L. 3273, 6239, 10415  
Jacob, M. 1835  
Iacovella, N. 4312  
Iannotta, N. 11930  
Iannuzzi, T. J. 8591  
Iatrou, G. D. 3128, 3641  
Iatrou, K. 1270, 11162  
Ibabo, M. G. 2450  
Ibáñez, C. 466, 5345  
Ibarra, J. 2198  
Ibarra-Vidal, H. 1806, 5690  
Ibrahim, A. M. A. 11432  
Ibrahim, L. 3291  
Ibrahim, M. A. 9394  
Ibrahim, M. E. 3441  
Ibrahim, N. M. M. 3314  
Ibrahim, S. A. 8506  
Ibrahim, Y. B. 1258, 4098  
Ibrar-ul-Haq 6725  
Ichihashi, H. 8558  
Ichikawa, A. 3744, 3832, 10677  
Ichikawa, K. 978, 6278, 6340  
Ichikawa, R. 8325  
Ichikawa, S. 10641  
Ichikawa, T. 2466, 2469, 2714, 3842  
Ichimura, S. 5190  
Ichino, T. 2714  
Ichinose, K. 2091, 9412  
Ichita, T. 6574  
Ickeringill, D. 8348  
Idi, A. 12086  
Idris, A. B. 5495  
Ieniştea, M. 2038  
Igarashi, H. 7516, 11568  
Igarashi, M. 4700, 11989  
Igarashi, Y. 4700, 5647, 7231, 10944  
Igarzábal, D. A. 9789  
Igisu, H. 479  
Iglesias, J. 11102  
Ignătescu, I. 533  
Ignoffo, C. M. 4183, 6226, 11233, 11478  
Igre, J. 3509  
Iguchi, K. 8920  
Ihara, H. 5231  
Ihara, J. 2953  
Ihara, Y. 2967  
Ihashi, Y. 4325  
Iijama, K. 5685  
Imura, S. 6495, 9716, 9728  
İonaitis, V. 3130  
Iitomi, A. 6341, 6494  
Iizuka, M. 2170  
Iizuka, T. 3246, 10421  
Ikari, T. 11578



- Ikeda, A. 2933, 10391  
 Ikeda, E. 8076  
 Ikeda, F. 10275, 10563-10564  
 Ikeda, M. 2939, 3849, 4130  
 Ikeda, T. 4372, 6801  
 Ikeda-Kikue, K. 232  
 Ikemoto, K. 9574  
 Ikemoto, Y. 2302, 11697  
 Ikenaga, K. 1023  
 Ikezawa, H. 11177  
 Ikizinal, K. 1317  
 Ilamurugan, G. 1589  
 Ilango, K. 3612  
 Ilboudo, P. T. 893  
 Iliadi, I. K. 11276  
 Illarionov, A. I. 11619  
 Illich, I. P. 9739  
 Ilovai, Z. 11033  
 Ilyasov, F. E. 4359  
 Ilyin, Y. V. 8206  
 Im, H. K. 2054  
 Im, W. B. 2054  
 Imada, N. 9625-9626  
 Imai, C. 7177  
 Imai, H. T. 4085, 4987  
 Imai, K. 3849, 4130, 7054  
 Imai, T. 4273, 7551, 10983, 11269  
 Imaida, K. 6360  
 Imaizumi, H. 10573  
 Imamura, K. I. 11583  
 Imasheva, A. G. 2994, 2997  
 Imbe, T. 575  
 Imberski, R. B. 8205, 9209  
 Imdorf, A. 1287, 8571  
 Imenes, S. D. L. 2535  
 Immonen, K. 10368  
 Impe, G. van 2399, 7167  
 Imre, M. 6656  
 Imtiaz Ahmad 2468  
 Imura, O. 5389, 6887  
 Imura, T. 4841, 8075  
 Imwinkelried, J. 7366, 7650  
 Ina, S. 2981  
 Inagaki, S. 370, 4160  
 Inaoka, T. 8492  
 Inayatullah, C. 3006  
 Inayatulla 6415  
 Inayatullah, C. 1528, 5710, 6044  
 Inbar, M. 8893  
 Incoll, L. D. 6080  
 India, Central Plantation Crops Research Institute 1782  
 India, Central Research Institute for Jute & Allied Fibres 2793  
 India, Central Tuber Crops Research Institute 2797  
 India, Entomology Research Institute 5779-5780  
 India, Fact Finding Committee on *Parthenium* 1749  
 India, Indian Potato Association 864  
 India, National Research Centre for Cashew 9021  
 India, Project Directorate of Biological Control 3716  
 India, United Planters' Association of Southern India 867  
 Indian Coffee 3602  
 Indresh, K. M. 4615  
 Indrasith, L. S. 4163, 7456, 7463  
 Infante, F. 1863, 2124, 3915, 10271  
 Infanzon, R. M. 11633  
 Ingalhalli, S. S. 9487  
 Ingalls, V. 3037  
 Ingham, E. R. 3395  
 Ingle, S. J. 8024  
 Inglis, G. D. 9481, 10431  
 Ingram, S. 1800  
 Ingram, S. N. 4112, 4855  
 Ingram, W. A. 2651  
 Ingrisich, S. 9113  
 Injac, M. 1539  
 Inoue, H. 89, 1867  
 Inoue, K. 5541, 5657  
 Inoue, M. 4274  
 Inoue, T. 1352, 4015, 5207, 5727  
 Inouye, D. W. 295  
 Inove, A. K. 6544  
 Intari, S. E. 2736-2737  
 International Crops Research Institute for the Semi-Arid Tropics 858, 2794-2796, 10752  
 International Group of National Associations of Manufacturers of Agrochemical Products 4813  
 International Institute of Entomology 8309, 9350-9351, 9882, 9892-9894, 9897-9898  
 International Pest Control 2064  
 International Society for Horticultural Science 2809, 3718-3719, 9025, 9027  
 Io, C. 1795  
 Ioannidis, P. M. 440  
 Ioerger, B. P. 4793  
 Ionkova, G. 7555  
 Ioriatti, C. 11856-11857  
 Iorio, O. R. di 3530, 4689, 7929  
 Ip, Y. T. 1005, 7141  
 Iperiti, G. 209  
 Ippolito, S. 66  
 Iqbal, J. 11049  
 Iqbal, S. 9007  
 Ireland, M. P. 965  
 Irmiler, U. 1243  
 Irsara, A. 7367  
 Irshad 11049  
 Irvine, G. B. 137, 4969  
 Irving, D. E. 785  
 Irving, N. S. 5602  
 Irwin, M. E. 9692, 10704  
 Isaac, A. M. 10065  
 Isaac, G. 8551  
 Isaacs, R. 7735  
 Isaeva, L. I. 2763  
 Isechi, M. 4807  
 Isenhour, D. J. 162, 1046, 2425-2426, 4426, 4475  
 Ishaaya, I. 3546, 4218, 4263, 6318, 6739, 8512, 9956, 11607  
 Ishag, K. E. 6313  
 Ishibashi, E. 9313  
 Ishibashi, N. 5249, 8409  
 Ishida, K. 10829  
 Ishida, Y. 3849  
 Ishiguro, K. 6493  
 Ishiguro, T. 370, 4160  
 Ishihara, M. 3925, 7170, 9133, 9336  
 Ishihara, R. 366, 5207  
 Ishii, M. 4119  
 Ishii, Y. 6498  
 Ishikawa, H. 1233, 1919, 3134, 5940, 9213, 11264  
 Ishikawa, K. 576  
 Ishikawa, K. I. 1051  
 Ishikawa, Y. 5370, 5880  
 Ishimaru, S. 164  
 Ishimoto, M. 8027  
 Ishitani, M. 5447, 5545, 6564  
 Ishiwatari, T. 3679  
 Ishiwatari, Y. 6481  
 Ishmuratov, G. Yu. 519, 3304, 8603  
 Isichaikul, S. 2466, 2469  
 Isidora, N. 65  
 Isidoro, N. 7005  
 Islam, B. N. 3707  
 Islam, M. N. 4944  
 Islam, N. 3526, 5434  
 Islam, W. 5176, 5732, 7168, 7168, 9304  
 Islam, Z. 7700  
 Ismail, A. 8405  
 Ismail, B. S. 6390  
 Ismail, I. I. 1604, 5758  
 Ismail, M. A. 10420  
 Ismail, P. M. 8160  
 Ismail, S. M. 4972, 11227  
 Ismail, S. M. M. 5857  
 Ismail, W. 3274  
 Isman, M. B. 430, 514, 1389, 2255, 4380, 6302, 7531, 7772, 7951, 9516, 9854, 10018, 11699  
 Isobe, M. 3849, 4130, 7054  
 Isobe, N. 6352  
 Isogai, K. 3679  
 Isono, K. 11338  
 Issa, S. 4520, 11461  
 Ita, E. O. 10659  
 Italy, Sudtiroler Beratungsring für Obst- und Weinbau 6631  
 Itami, J. K. 4703, 8974  
 Itâmies, J. 8300, 10368  
 Itier, B. 9479  
 Ito, F. 2084, 7218, 10939  
 Ito, J. 5335  
 Ito, K. 4448, 5207, 6278, 7705-7706  
 Ito, N. 6360  
 Ito, R. 1935  
 Ito, Y. 468, 844, 3924, 4805, 4807, 5740, 5825, 6886, 7572, 9604, 10378, 10792  
 Itoh, E. 632  
 Itoh, J. 3989  
 Itoh, K. 6853  
 Itoh, M. 11181  
 Itou, K. 6340  
 Itou, M. 9728  
 Ivancic, W. A. 10516  
 Ivankovich, C. 10478  
 Ivanov, G. P. 4322  
 Ivanova, A. 9149  
 Ivanova, N. M. 1400  
 Ivanova, T. S. 6562  
 Ivanović, J. 11187  
 Ivashchenko, L. S. 2504  
 Ivashov, A. V. 1653  
 Ivie, M. A. 5741, 9370  
 Ivlev, S. V. 11204  
 Iwabuchi, K. 308  
 Iwagawa, T. 3318, 8613  
 Iwahana, H. 4163, 4165, 6119, 6251  
 Iwahashi, O. 5079, 11307  
 Iwakuma, T. 5362  
 Iwamoto, S. 10221  
 Iwanaga, K. 3340  
 Iwanaga, M. 8027  
 Iwano, H. 366, 5207, 9493  
 Iwao, K. 1740  
 Iwasaki, A. 6589, 9800, 10021  
 Iwasaki, K. 5951  
 Iwasaki, M. 575  
 Iwasaki, T. 4119  
 Iwashita, Y. 11497  
 Iwata, H. 3380, 8558  
 Iwata, N. 11547  
 Iwatsuki, K. 4606  
 Iwaya, K. 6498, 7541  
 Iyengar, A. 7672  
 Iyengar, M. N. S. 9471  
 Iyengar, S. 1359  
 Iyer, L. R. 5755  
 Izawa, H. 7045  
 Izhaki, I. 1739  
 Izhevsky, S. S. 72  
 Izquierdo, J. 9810  
 Izraylevich, S. 7221, 11309  
 Izumi, K. 2254  
 Izumi, S. 94, 1937, 1944, 10215  
 Izuno, M. 4934  
 Jaarsveld, M. J. van 10536  
 Jacas, J. A. 3371  
 Jackai, L. E. N. 1487, 3501, 6568, 10781, 11788  
 Jäckle, H. 2896, 8227  
 Jackman, J. A. 11371  
 Jackson, B. D. 4973, 9178  
 Jackson, C. G. 3222, 5537, 8795, 9377  
 Jackson, C. M. 8567  
 Jackson, G. 4059  
 Jackson, G. V. H. 4137  
 Jackson, L. L. 2935  
 Jackson, M. B. 2968, 6324  
 Jackson, R. J. 10571  
 Jackson, R. R. 200, 1067, 3045, 6193, 8274  
 Jackson, T. A. 2187, 9462, 9506  
 Jackson, T. J. 9490  
 Jackson, W. R. 1316  
 Jackson, Y. A. 5291  
 Jacob, S. 10036  
 Jacob, T. K. 1259, 1599, 6704, 10443  
 Jacobi, K. K. 8013  
 Jacobs, R. M. 2787  
 Jacobsen, D. 734  
 Jacobson, B. L. 10181  
 Jacobson, D. A. 9715  
 Jacobson, E. B. 5100  
 Jacoby, D. B. 9244  
 Jacq, B. 5955  
 Jacques, M. 1027  
 Jacquet, M. 2617  
 Jactel, H. 2699, 5673  
 Jaczewska, A. 2400  
 Jadhav, S. S. 11736  
 Jaenike, J. 358, 6240, 11356  
 Jaffé, K. 5574, 5597, 8254, 8914  
 Jaffe, K. 11461  
 Jafri, R. H. 3685  
 Jagers op Akkerhuis, G. A. J. M. 5407  
 Jagla, K. 10218  
 Jaglan, M. S. 9119, 11576  
 Jago, N. D. 6988  
 Jagtap, N. R. 6235  
 Jahan, M. 8739  
 Jahn, M. 8753  
 Jai Ram 328  
 Jain, A. 7128, 8894  
 Jain, D. C. 8606, 8612  
 Jain, H. K. 7765  
 Jain, K. L. 6548  
 Jain, R. C. 7730  
 Jaipal, S. 5587  
 Jaisson, P. 11324  
 Jaiswal, A. K. 7987, 11431  
 Jaiswal, P. M. 9767  
 Jakes, K. 1023  
 Jakob, E. M. 6193  
 Jakubczak, J. 1043  
 Jalali, S. K. 319, 11418  
 Jalava, J. 10296  
 Jalkanen, R. 764  
 Jallon, J. M. 1724, 5693, 5885, 11224  
 Jamaica, Sugar Industry Research Institute 3717  
 Jamal, A. 6776  
 Jamal, K. 5303, 11604  
 James, C. 10644  
 James, D. G. 664, 1546, 3332, 4585, 7060, 7062, 7822, 9655, 9868, 10383, 11755, 11892  
 James, P. J. 7071  
 Jameson, M. L. 2850  
 Jamet, C. 9130  
 Jamil, K. 3692, 6028, 6272  
 Jamiruddin, S. 5007  
 Jan, A. 3588  
 Jan, H. 8696  
 Jan, L. Y. 3872, 7143  
 Jan, R. 8696  
 Jan, Y. N. 3872, 7143  
 Jana, A. K. 3461, 3464, 5442  
 Jana, T. K. 5360  
 Janak Ahi 10560  
 Jander, R. 4884  
 Jander, U. 4884  
 Janetschek, H. 4452  
 Janežič, F. 3127  
 Jang, E. B. 177, 9155, 9703, 11299  
 Jang, K. S. 11700  
 Jangawad, L. S. 7678  
 Janiot, L. J. 2346  
 Janković-Hladni, M. 11187  
 Jankulova, E. D. 9161  
 Jánošíková, V. 5304-5305  
 Jansen, R. F. 6218  
 Janssens, S. 2162  
 Janssens, A. 224, 2505, 2811  
 Janssen, C. R. 1368  
 Janssen, E. 4941, 11193  
 Janssen, I. 7085  
 Janssen, J. A. M. 1436, 5422



- Janssen, W. 5216, 8438  
 Jansson, J. 11760  
 Jansson, R. K. 2517, 10803, 11076  
 Jany, C. S. 7453  
 Janz, N. 530, 4387  
 Janzen, D. H. 8082  
 Janzen, W. P. 7094  
 Japan, Pesticide Science Society of Japan 11069  
 Japanese Journal of Entomology 5812  
 Jaraczewska, W. 4281  
 Jarboe, H. H. 11634  
 Jardon, Y. 2712, 3661  
 Járász, J. 6927  
 Jarial, M. S. 5836  
 Järlfors, U. 86, 3286  
 Jarnagin, K. 3137  
 Jarošik, V. 8108  
 Jarosz, J. 11212  
 Jarry, M. 5742  
 Järvekülg, L. 7474  
 Jarvis, S. C. 483  
 Jarvis, T. D. 4350  
 Jarvis, W. R. 1524  
 Jatho, M. 1898, 3175  
 Jatoti, G. F. 11926  
 Jauregui, E. A. 6404  
 Javadi, I. 2636, 9003, 9532, 9951  
 Javaregowda, B. L. 7483  
 Javed, N. 3341  
 Jaworska, M. 3490  
 Jay-Allemand, C. 8903  
 Jayanth, K. P. 1748, 5715, 6045, 8001, 11446  
 Jayanthi, M. 9769-9770, 11936-11937  
 Jayapragasam, M. 5230  
 Jayaprakas, C. A. 4483, 11802  
 Jayaraj, S. 374, 710, 2184, 2404, 3411, 6243, 7638, 7892  
 Jayaramaiah, M. 7483  
 Jayaraman, J. 5322  
 Jayas, D. S. 850, 8036, 9013  
 Jayaswal, J. 9298, 9341, 9557  
 Jayaswal, K. P. 7017  
 Jayo, A. L. 6586  
 Jayswal, J. 3005  
 Jazdon, J. 2503  
 Jean, F. I. 6865  
 Jean, S. 759  
 Jean-Prost, P. 2820  
 Jeanne, R. J. 9309  
 Jeanneret, P. 6860  
 Jebanesan, A. 5704  
 Jebaraj, S. 574  
 Jebb, M. 1643  
 Jech, L. E. 5261  
 Jech, L. F. 8428  
 Jedličková, J. 7279-7280  
 Jefferson, D. K. 10001  
 Jeffree, C. E. 4046  
 Jeffree, E. P. 4046  
 Jeffs, L. B. 430  
 Jeffs, P. S. 11266  
 Jeger, M. J. 5598  
 Jegorov, A. 4157, 5211  
 Jehle, J. A. 4171, 5212  
 Jelinek, A. 197  
 Jena, B. C. 3590, 8698  
 Jendek, E. 11133  
 Jeng, R. S. 11433  
 Jenkins, B. 8531  
 Jenkins, J. N. 2641, 9401  
 Jenkins, J. W. 6640  
 Jenkins, N. E. 7420, 7427  
 Jenkins, N. L. 7115  
 Jenkyn, J. F. 7652  
 Jensen, J. E. 10500  
 Jensen, L. B. 7472, 8758  
 Jensen, S. 5671  
 Jenssen, B. M. 459  
 Jentsch, P. J. 4557  
 Jeon, S. H. 7120  
 Jeong, Y. H. 2260  
 Jepson, P. C. 543, 4308, 5193, 7239, 7336, 7660, 9520, 10609, 10696-10697, 10701  
 Jeremiason, J. D. 3390  
 Jerie, P. H. 8767  
 Jermini, M. 9863, 12030  
 Jermey, T. 8968  
 Jervis, M. A. 78, 2139, 3145, 3743, 4626  
 Jespersen, S. 7030  
 Jess, S. 1467  
 Jessup, A. J. 3710  
 Jesudason, P. 5889  
 Jett, J. B. 6782  
 Jewell, D. C. 8652  
 Jewell, T. 425  
 Jewess, P. J. 3838, 6316  
 Jewett, D. K. 9705  
 Jewett, T. J. 1524  
 Jeyakumar, E. 5199  
 Jeyaprakash, A. 8203  
 Jeyarani, S. 2458  
 Jha, L. K. 10928  
 Jha, R. C. 11924  
 Jhala, R. C. 5467, 5563, 11981  
 Jhansilakshmbai, K. 6034  
 Ji, I. 11485  
 Ji, L. Z. 2654  
 Ji, S. M. 2149  
 Ji, T. H. 11485  
 Ji, Z. D. 1876, 9447  
 Jia, F. Y. 8279  
 Jian, H. 2201  
 Jian, H. C. 11497  
 Jian, X. 5295  
 Jiang, D. Y. 8421  
 Jiang, F. X. 6402  
 Jiang, F. Y. 6864  
 Jiang, G. F. 10133  
 Jiang, J. W. 11750  
 Jiang, P. Z. 9720  
 Jiang, X. H. 7509  
 Jiang, X. L. 10054  
 Jiang, Y. 11763  
 Jiang, Y. S. 8755  
 Jiang, Z. Q. 9729  
 Jianguo, T. 5295  
 Jiankun, S. 5295  
 Jiao, S. F. 8793  
 Jiao, S. Z. 9637  
 Jiao, Y. 9345  
 Jiggins, C. 8256  
 Jikumaru, S. 7165, 7955, 8902  
 Jilderda, K. 2543  
 Jiménez, A. 7868  
 Jiménez, B. 467  
 Jiménez, I. A. 4763  
 Jiménez, J. 6148, 7325  
 Jiménez, J. J. 2096  
 Jiménez, M. L. 5149, 8299  
 Jiménez, R. 6571  
 Jimenez, R. 53, 2612, 10657  
 Jimenez-Castro, C. 11648  
 Jimenez-Jimenez, E. 2223  
 Jimenez Perez, A. 811  
 Jiménez R., M. 9918  
 Jiménez V., J. 5116  
 Jin, B. R. 6230  
 Jin, S. 9233  
 Jin, W. 4332  
 Jin, Z. C. 2471  
 Jin, Z. L. 4330, 5311  
 Jin, Z. S. 310  
 Jin, Z. Y. 9689  
 Jindal, S. K. 8861  
 Jindra, M. 133, 2982, 11260  
 Jing, J. L. 3653  
 Jing, Z. Q. 3022  
 Jinmori, H. 494  
 Jirón, L. F. 3788  
 Jitender Kumar 677, 7585  
 Jizba, J. 6223  
 Joannis, D. R. 4908, 4918, 6078, 9159  
 Jobsen, J. A. 4093  
 Jock, K. 10655  
 Jodai, S. 5668  
 Jodal, I. 1679  
 Joeressen, H. J. 7434, 7956  
 Joermann, G. 7604  
 Joern, A. 2020, 2473, 7719, 8144, 10163  
 Johal, K. 5699  
 Johal, M. S. 10591  
 Jóhannesson, T. 11649  
 Johansen, H. R. 8535  
 Johansen, P. H. 9603  
 Johansen, R. M. 9099  
 Johansson, L. 77, 10974  
 Johansson, M. 5405  
 John, A. 3067, 5373, 10193  
 John, J. N. 7633  
 John, J. O. 4378, 5378  
 John, M. 4309  
 Johnsen, A. M. 10661  
 Johnson, A. C. 512  
 Johnson, A. G. 10185  
 Johnson, B. R. 9640  
 Johnson, C. D. 4766, 5021  
 Johnson, D. E. 2172, 7694  
 Johnson, D. L. 4319, 9397, 9481  
 Johnson, D. T. 2186  
 Johnson, E. S. 10571  
 Johnson, F. A. 4631, 10901  
 Johnson, G. I. 6909  
 Johnson, H. L. 6770  
 Johnson, J. A. 10059  
 Johnson, J. B. 1074, 7649  
 Johnson, J. E. 2193  
 Johnson, J. W. 6658, 9690  
 Johnson, K. J. R. 6719  
 Johnson, K. N. 10411  
 Johnson, K. S. 10438  
 Johnson, M. 7968  
 Johnson, M. P. 7969  
 Johnson, M. W. 5222, 8747, 9510, 9576, 9612, 11588, 11592  
 Johnson, N. A. 1036, 1871-1872, 1902, 2954, 8575  
 Johnson, P. C. 9392  
 Johnson, P. J. 9054, 11906  
 Johnson, P. L. 8472  
 Johnson, R. A. 6149  
 Johnson, R. J. 3301  
 Johnson, R. K. 349  
 Johnson, R. R. 1270  
 Johnson, S. 4764, 8991  
 Johnson, S. J. 3096, 6125, 10276  
 Johnson, T. B. 6463  
 Johnson, W. G. 3315  
 Johnson-Cicalese, J. M. 6506  
 Johnson-Logan, L. R. 2356  
 Johnson-Schlitz, D. M. 8226  
 Johnston, C. F. 137  
 Johnston, D. L. 10431  
 Johnston, G. 263, 454, 1341, 8569  
 Johnston, J. S. 5997  
 Johnston, K. A. 8127  
 Johny, A. K. 3678  
 Johri, A. K. 6367  
 Johri, B. N. 11650  
 Johri, J. K. 6819, 7990  
 Joiris, C. 11647  
 Jokanović, M. 5306  
 Joley, D. B. 2750  
 Jolivet, J. 1085  
 Jolivet, P. 1086, 1120  
 Jolly, D. 10853  
 Joly, D. 3881  
 Joly, L. J. 7270-7271  
 Jonaitis, V. 1153  
 Jonasson, T. 5488, 6561, 11681  
 Jones, A. T. 5534, 7827-7828  
 Jones, C. 2876, 3688, 6081  
 Jones, C. G. 2651, 2921  
 Jones, D. 10165  
 Jones, D. B. 3180  
 Jones, G. 7052, 8219  
 Jones, G. C. 394  
 Jones, G. D. 1096  
 Jones, I. M. 1271  
 Jones, J. M. 3818  
 Jones, J. W. 11923  
 Jones, K. A. 5602, 7433  
 Jones, M. E. E. 997, 11197  
 Jones, M. J. 11726  
 Jones, M. K. 7066  
 Jones, O. T. 3302  
 Jones, P. A. 6524  
 Jones, P. D. 3355-3356  
 Jones, R. A. 63, 635, 3782, 7181, 9353  
 Jones, R. E. 2604  
 Jones, R. K. 12021  
 Jones, R. L. 3231, 7063  
 Jones, S. R. 10644  
 Jones, T. L. 10357  
 Jones, V. P. 7548, 7854  
 Jones, W. 4059  
 Jong, F. M. W. de 5285  
 Jong, H. de 898  
 Jong, J. 10413  
 Jong, J. de 6816  
 Jong, P. W. de 1018, 9259  
 Jongema, Y. 2730  
 Jongsma, M. A. 8743  
 Jonsall, G. 502  
 Jönsson, C. J. 4310  
 Jonsson, C. M. 7558  
 Joos, B. 959  
 Jordaens, K. 2025  
 Jordano, D. 1743, 5052, 11292  
 Jörg, E. 935  
 Jorg, G. 3729  
 Jørgensen, S. E. 4064  
 Jorquera, M. J. 6122  
 Jösch, H. 3423  
 Jose, V. T. 9762  
 Joseph, A. 8513  
 Joseph, C. P. D. 2614  
 Joseph, K. V. 5314  
 Joshi, J. M. 9532  
 Joshi, K. C. 724, 6773, 8894  
 Joshi, K. L. 6416  
 Joshi, L. 7424, 8440, 9499, 11507  
 Joshi, N. C. 6870  
 Joshi, P. C. 11658  
 Jossi, W. 6558  
 Jothi, B. D. 7857  
 Joubert, M. H. 2582  
 Joubert, P. 10883  
 Joubert, P. H. 3563, 9905  
 Jourdan, H. 9127  
 Journal of Forestry 6744  
 Jouvenaz, D. P. 9073  
 Jowett, J. B. M. 1271  
 Joy, J. E. 131  
 Joy, O. 8513  
 Joyce, D. C. 2769, 5746  
 Joyce, M. S. 9712  
 Joyner, A. L. 11250  
 Ju, J. L. 11998  
 Ju, Z. L. 1276  
 Juan, C. 5117, 8196  
 Juang, J. L. 117  
 Juarez-Perez, V. M. 2198  
 Juchault, P. 75, 9518, 11488  
 Juchelka, C. M. 2073, 10611  
 Judal, G. S. 1322, 6331  
 Judd, G. J. R. 4062, 4552, 6634, 7164  
 Judd, K. W. 9283  
 Jugtani, T. K. 10771, 11926  
 Jui, P. Y. 591  
 Jukes, T. H. 2306  
 Jukić, V. 1594  
 Jukola-Sulonen, E. L. 721  
 Julien, G. 4321  
 Julkunen-Tiitto, R. 5375, 7923  
 Jum Sook Chung 2920  
 June, S. 6638  
 Jufent, S. R. 16  
 Jung, J. K. 7709, 10171  
 Jung, K. 7411  
 Jung, P. von 781  
 Jung, S. J. 11666  
 Junge, M. 4133  
 Jungen, C. 996  
 Junior, C. R. 8278  
 Jurado, E. 3061  
 Jurd, L. 177  
 Jurenka, R. A. 2919, 9172  
 Jussila, R. 8050  
 Justin, M. J. 5640  
 Justo, H. 7713  
 Justo, H. D., Jr. 4107  
 Jutzeler, D. 254  
 Juvik, J. A. 4275, 11603  
 Juzheng, C. 6479  
 Jyothi, H. K. 6052, 6271, 8369  
 Jyothi, K. N. 4369, 6028, 11584  
 Jyothi, R. 11735



- Jyothirmayala, D. 8174, 8283  
 Kaakeh, W. 4610  
 Kabaleeswaran, V. 8484  
 Kabaria, B. B. 9762  
 Kabbouh, M. 9202  
 Kabir, A. 8708  
 Kabir, K. H. 1509  
 Kač, M. 3146-3147, 3147  
 Kacelnik, A. 7345  
 Kacew, S. 4797, 5748  
 Kachole, M. S. 10775  
 Kadaba, P. K. 6335  
 Kadalayil, L. 1005  
 Kadam, J. R. 7865  
 Kádár, F. 3018  
 Kadel, W. L. 6365  
 Kadiata, B. D. 8848  
 Kadiri, Z. 9560  
 Kadlec, M. C. 10616  
 Kadlec, Z. 4157  
 Kadohara, T. 3773  
 Kadono, F. 10281  
 Kadono-Okuda, K. 8222, 9146, 9152, 10221  
 Kadyrov, A. K. 11823  
 Kaewnaron, B. 6383  
 Kafatos, F. C. 1050  
 Kafisheh, W. 9988  
 Kagabu, S. 3331, 6498, 9589  
 Kageyama, T. 2907  
 Kageyama, Y. 10138  
 Kaguni, L. S. 1938, 11262  
 Kahlen, M. 1832  
 Kahn, M. L. 11777  
 Kahono, S. 9116  
 Kaib, M. 4127, 10200  
 Kaila, L. 2871  
 Kainoh, Y. 318, 3230  
 Kainulainen, P. 5664-5665, 7937  
 Kais, A. G. 8898  
 Kaiser, E. A. 10254  
 Kaiser, K. 4917, 5901, 7122  
 Kaiser, K. L. E. 450  
 Kaissling, K. E. 10187  
 Kaitala, A. 11312  
 Kaitaniemi, P. 11984  
 Kaitera, J. 764  
 Kaitović, Ž. 6460, 6466  
 Kajak, A. 536  
 Kajj, Y. 4165  
 Kajihara, O. 11567  
 Kajimura, H. 8847  
 Kajimura, T. 7708  
 Kajino, Y. 6589  
 Kajiya, S. 7985  
 Kakaty, B. M. 3512  
 Kakinohana, H. 10348  
 Kakinuma, K. 3320-3321  
 Kakizaki, M. 150  
 Kakoty, N. N. 2616  
 Kakroo, S. K. 4790  
 Kakuta, A. 5195  
 Kalafatić, M. 11644  
 Kalafatic, M. 5325  
 Kalavathi, D. 3617  
 Kalb, J. M. 8163  
 Kale, K. B. 7844  
 Kale, S. P. 10724  
 Kalia, S. 6773  
 Kalia, V. 11782  
 Kaliafas, A. D. 2914  
 Kalinová, B. 517  
 Kafkowska, K. Gromysz- 7562  
 Kallapur, V. L. 5889  
 Kallay, W. B. 10528  
 Kallenborn, R. 2351, 6357  
 Kallies, A. 10305  
 Källqvist, T. 5351, 5353  
 Kalmakoff, J. 10408  
 Kálmán, S. 10846  
 Kalmoukos, P. 8711  
 Kalmring, K. 889, 1898, 3175, 8109-8110  
 Kalode, M. B. 570-571, 1452, 6486, 6500, 7707  
 Kalogerakis, N. 269  
 Kalogianni, E. 5928, 9196  
 Kalpin, R. F. 5954  
 Kalra, R. L. 1322, 1608, 5466, 6331, 6350  
 Kaltenbach, A. 2041  
 Kaltenbach, J. E. 4223  
 Kaltenhauser, U. 7021  
 Kalúz, S. 3998, 4021  
 Kaluzny-Pinon, L. 7825  
 Kalvelage, H. K. 7695  
 Kalyanasundaram, M. 10522  
 Kamaevm, F. G. 270  
 Kamakura, K. 4807, 7572  
 Kamal, N. Q. 3462, 5177, 8664  
 Kamal Singh 4797, 5748  
 Kamaluddin, S. 2468, 2879  
 Kamata, N. 743, 4700, 5647, 7231, 9478, 10944, 11989  
 Kambhampati, S. 5975  
 Kambale, C. K. 10395  
 Kamble, S. T. 4126, 9165  
 Kamboj, M. C. 6592  
 Kamedia, Y. 4923, 9575  
 Kamei-Hayashi, K. 11181  
 Kamel, A. 1715  
 Kamel, E. G. 2157, 10417  
 Kamen, A. 11533  
 Kameoka, H. 5370  
 Kameoka, Y. 7135  
 Kameswaran, V. 261  
 Kameya-Iwaki, M. 3529  
 Kamezawa, M. 523  
 Kamhi, V. M. 261  
 Kami, V. 7489  
 Kamiie, K. 5195  
 Kamijo, K. 921, 6978, 7970, 8076  
 Kamikado, T. 4500, 4502  
 Kamili, A. S. 11468  
 Kamimura, H. 3416  
 Kamimura, M. 4007, 9182  
 Kaminchia, N. N. 3601  
 Kamińska, A. 8963  
 Kaminszky, M. E. 10998  
 Kamita, S. G. 4201, 7457  
 Kamiwada, H. 7699, 10150  
 Kamiya, M. 4239, 6299, 9548, 10642  
 Kammar, P. M. 1766  
 Kamnaing, P. 806  
 Kamoto, T. 7014, 10238  
 Kämpfer, P. 3236  
 Kampichler, C. 10253, 11017  
 Kamping, A. 3884  
 Kampmeier, G. E. 9692  
 Kan, C. A. 9617  
 Kanamori, Y. 4201  
 Kanapatskaya, V. A. 11794  
 Kanatharana, P. 6383  
 Nanchan Baral, K. 10802  
 Kanda, K. 4456  
 Kandalkar, H. G. 2437  
 Kandasamy, C. 10094  
 Kanehisa, K. 2417, 4936, 5438  
 Kaneko, H. 6352  
 Kaneko, J. 6075, 6583  
 Kaneko, R. T. 10996  
 Kaneko, T. 7965  
 Kaneshiro, K. Y. 5045, 11315  
 Kanev, I. 8404  
 Kang, B. T. 9287  
 Kang, C. W. 3828  
 Kang, D. S. 7979  
 Kang, L. 8298  
 Kang, P. D. 1238  
 Kang, S. K. 6230, 11515  
 Kang, W. 1964  
 Kang, Y. 7103  
 Kanga, L. B. H. 5111, 5296  
 Kang, L. H. B. 9404, 9958  
 Kania, C. 1284  
 Kaniuczak, Z. 3429, 11721  
 Kanja, L. W. 5316  
 Kanke, E. 11497  
 Kanmiya, K. 5551, 10349  
 Kann, L. M. 2951  
 Kannan, A. 6891  
 Kannan, K. 2347, 3367, 4789, 5343, 7617, 8558  
 Kannan, N. 7575  
 Kannan, T. 903  
 Kanost, M. R. 3865, 5995, 10174, 10224  
 Kansu, I. A. 12077  
 Kanta, U. 7680  
 Kanzaki, R. 2933  
 Kao, C. H. 6327  
 Kao, S. S. 2074, 2213, 10407, 10468  
 Kapadia, M. N. 5153, 11449, 11927, 11940, 11972  
 Kapadia, Z. 11000  
 Kapatos, E. T. 10855  
 Kape, B. 1759  
 Kapelinski, A. 7257  
 Kapil, R. S. 4348  
 Kapila, S. 4336  
 Kaplin, V. G. 2012  
 Kapoor, A. C. 10032, 10056  
 Kapoor, A. S. 2493  
 Kapoor, I. P. 3338  
 Kapoor, K. S. 6759  
 Kapoor, L. 3891  
 Kapur, M. 11051  
 Kapusta, G. 9714  
 Kar, I. 1927  
 Kar, P. K. 9157, 10397  
 Kara, M. 9793  
 Karacali, S. 3811  
 Karakaya, A. E. 8562  
 Karalus, W. 1492  
 Karanavar, G. K. 10544  
 Karanjkar, R. R. 7689  
 Karanth, N. G. 4233  
 Karanth, N. G. K. 1373, 4233  
 Karasin, A. I. 5243  
 Karban, R. 2741-2742, 4774-4775, 6842, 10921, 11875, 11880  
 Karch, F. 3885  
 Karchi, Z. 1526, 5562  
 Kareem, A. A. 10894  
 Karess, R. E. 1921  
 Karg, G. 4480, 5377, 7820, 9654, 11554  
 Kargapol'tseva, T. A. 8603  
 Karim, E. I. A. 6313  
 Karim, F. D. 7137  
 Karim, M. A. 1635, 3526, 3707, 5434, 5611, 8833  
 Karimullah 553, 1437  
 Karkut, W. 696  
 Karl, E. 7260, 10769  
 Karle, I. M. 10116  
 Karlik, J. F. 4686, 12028  
 Karlsson, B. 64  
 Karlsson, C. 2227  
 Karmakar, P. G. 11769  
 Karner, M. A. 9958  
 Karnosky, D. F. 8931  
 Károly, P. 9931  
 Károssy, C. 6927  
 Karowe, D. N. 3030  
 Karr, C. 1372  
 Karr, T. L. 2166  
 Karsavuran, Y. 1519  
 Karsch-Mizrachi, I. 1930  
 Karsholt, O. 1152  
 Karuso, P. H. 7066  
 Kasahara, H. 5370  
 Kasahara, T. 2417  
 Kasai, F. 8573  
 Kasamatsu, K. 4274  
 Kasana, A. 6070  
 Kasavi, B. 1023  
 Kashouli-Kouppari, A. 1315  
 Kashyap, N. P. 597, 2398, 2602, 3510, 5501, 7236, 10388  
 Kashyap, R. 5755  
 Kashyap, R. K. 8629  
 Kashyap, S. L. 1640, 6952  
 Kasilo, O. M. J. 11622  
 Kaske, R. 10665  
 Kaspari, M. 2020, 3189, 8858, 10272  
 Kassulke, N. M. 7616  
 Kastner, U. 7486  
 Kasu, T. 9756  
 Kasuga, H. 7042  
 Katagi, M. 494  
 Katagi, T. 9550  
 Katahira, E. J. 139, 1909  
 Katakayama, M. 10138  
 Katakura, H. 9116  
 Kataoka, H. 8222  
 Katayama, Y. 4201  
 Kathirithamby, J. 26, 1829  
 Katinger, H. W. D. 5233  
 Katiyar, K. N. 704  
 Katiyar, R. R. 10813  
 Kato, S. 5740, 12043  
 Kato, T. 10798  
 Kato, Y. 5882, 8222, 9152, 10221  
 Katoh, M. 11567  
 Katole, S. R. 2438-2439, 6475, 7844  
 Katovich, S. A. 2692  
 Katpar, P. B. 6620  
 Katsoris, P. G. 3814  
 Katsoyannos, B. I. 977, 4386, 5374, 6699, 7849, 11893, 11914  
 Katsoyannos, P. 8324  
 Katsumata, T. 5195, 5951  
 Katz, M. 1952  
 Kätzel, R. 9986  
 Katzensteiner, K. 6797  
 Kauda, S. K. 3628  
 Kauffman, W. C. 6176  
 Kaufman, S. R. 3646  
 Kaufman, T. C. 5967-5968  
 Kaufmann, N. 10157  
 Kaul, B. K. 2448  
 Kaul, V. 6601  
 Kaupp, W. J. 365  
 Kaur, D. 2158  
 Kaur, J. 11608  
 Kaur, K. 7560  
 Kaur, S. 1252  
 Kaur, T. 8470  
 Kaushal, R. A. 3365  
 Kaushik, U. K. 2467, 6501  
 Kaushik Banerjee 10646  
 Kavadia, V. S. 6117, 9820  
 Kawabe, A. 9064  
 Kawaguchi, Y. 194, 2148  
 Kawahara, N. 10199  
 Kawahara, S. 8150  
 Kawai, A. 7796  
 Kawai, K. 3003  
 Kawakami, Y. 366, 5207  
 Kawakita, H. 1867, 7914  
 Kawaminami, M. 11492  
 Kawamura, F. 4935  
 Kawamura, N. 3246, 5191  
 Kawamura, R. 9728  
 Kawamura, T. 11568  
 Kawana, T. 10281  
 Kawano, M. 2386  
 Kawano, T. 984  
 Kawarabata, T. 4191, 5205, 9489  
 Kawasaki, K. 5560, 10828  
 Kawata, K. 8578  
 Kawazoe, A. 3901  
 Kawazoe, K. 4501  
 Kawazu, K. 4936  
 Kaweck, T. J. 7217, 11047  
 Kawol, D. 8960  
 Kay, C. M. 8170  
 Kay, I. 979, 5902  
 Kay, M. 6069, 8978  
 Kaya, H. K. 791, 3289, 10448  
 Kaya, N. 1470, 1482  
 Kayser, H. 6315  
 Kazi, M. 2340  
 Kazino, Y. 6584-6585  
 Kazmer, D. J. 3198, 3958, 6184  
 Ke, C. 9886  
 Keagy, P. M. 5749  
 Keane, R. E. 762  
 Kearney, M. L. 4381  
 Kearns, C. A. 295  
 Keaster, A. J. 5070  
 Keaveny, D. 8344  
 Keddie, A. 9505  
 Keddy, C. J. 11558  
 Keefe, T. J. 1340  
 Keeler, K. H. 8290  
 Keeler, S. J. 8407  
 Keen, J. 4917  
 Keeney, G. 7903  
 Keenlyne, K. D. 5344  
 Keese, M. C. 1007, 1956  
 Keever, D. W. 2781



- Kegler, H. 5399, 10825  
 Kegong, L. 6479  
 Kehat, M. 2564, 2574, 6669, 8322  
 Keifer, M. 7592  
 Keightley, P. D. 8214  
 Keiji, Y. 7977  
 Keil, C. B. O. 813  
 Keil, T. A. 4903  
 Keim, P. 10963  
 Keimer, C. 2214  
 Kein, V. A. 7246  
 Keinänen K. 10153  
 Keith, J. O. 6358, 7588  
 Keizer, K. L. Wainio- 4313  
 Kelber, G. 8221  
 Kelce, W. R. 11606  
 Keldsen, T. J. 11624  
 Keller, B. 7920, 10358  
 Keller, L. 973, 5142, 6017, 6040, 7118  
 Keller, M. A. 5492, 11155  
 Keller, R. 7606  
 Keller, S. 1969, 4771, 6190, 7423  
 Keller, V. 4959  
 Keller, V. S. 9759  
 Kellermann, J. 7021  
 Kelling, K. A. 7762  
 Kelln, R. A. 4141  
 Kells, J. J. 2316  
 Kellum, D. 6893  
 Kelly, A. G. 6381  
 Kelly, J. T. 7574  
 Kelly, S. J. 5342  
 Kelly, T. J. 3391, 8205, 9139, 9391, 11524  
 Kelly, T. L. W. 10499  
 Kelsey, R. G. 7962, 8994  
 Kemp, W. P. 3479, 4451, 6517, 10359  
 Kempe, T. G. 9236  
 Kemper, C. 3378  
 Kempainen, J. A. 11606  
 Kenaschuk, E. O. 9965  
 Kendal, A. P. 2052  
 Kendall, R. J. 7598, 8553, 10596  
 Kendrick, B. 10292  
 Kendrick, P. N. 2299  
 Kene, H. K. 8834, 8836, 8838  
 Kenerley, C. M. 4241  
 Kenis, M. 757  
 Kenkel, P. 6877  
 Kenmore, P. E. 11749  
 Kennedy, A. C. 11027  
 Kennedy, E. R. 8592  
 Kennedy, F. J. S. 688, 3583, 11939  
 Kennedy, G. G. 9279, 9581, 9809, 10547  
 Kennedy, P. L. 9608  
 Kennedy, T. 11718  
 Kennett, C. E. 7870  
 Kent, R. A. 7584, 10614  
 Kenty, M. M. 2487  
 Kenworthy, W. J. 10756  
 Keomel, W. C. 3982  
 Keren, S. 3546  
 Kereši, T. 6257, 6466, 6536  
 Kerhoas, L. 6120  
 Kerkhofs, M. J. J. 7614  
 Kerkhove, E. van 2931, 4087, 8146, 11196  
 Kerkoven, R. M. 2152  
 Kern, F. 4941, 10673, 11193, 11330  
 Kern, J. R. 11812  
 Kerns, D. L. 6596  
 Kerremans, P. 1947, 3883, 8464, 11240  
 Kerridge, S. 5955  
 Kersting, E. 2068  
 Kersting, K. 10650  
 Kersting, U. 445, 1569, 7232, 10902, 11436, 11895  
 Kerzhner, I. M. 11127  
 Kesbeke, F. 9259  
 Kesel, A. de 2154  
 Keshishian, H. 1008  
 Kester, K. M. 4641  
 Ketchum, R. E. B. 9512  
 Ketring, D. L. 9688  
 Ketsa, S. 1576  
 Kettler, R. 8397  
 Kettrup, A. 4314, 8597  
 Kevan, P. G. 7189  
 Key, G. E. 4800  
 Key, K. H. L. 43, 5163  
 Key, P. B. 2332  
 Keyzer, A. de 10699  
 Kfoury, L. 3426  
 Khachatourians, G. G. 4145, 4179, 5218, 6221, 10897  
 Khaemba, B. M. 8932  
 Khalaf, J. 3553  
 Khalaf, M. Z. 8240  
 Khalequzzaman, M. 3932, 5194  
 Khalil, S. K. 11049  
 Khalil, A. M. A. 7591  
 Khambay, B. P. S. 11589  
 Khamiss, O. 10444  
 Khamraev, A. Sh. 10925  
 Khan, A. M. 11532  
 Khan, A. R. 3630  
 Khan, B. A. 5303, 11604  
 Khan, F. A. 6283  
 Khan, H. H. 5763  
 Khan, H. K. 727, 6243, 7743  
 Khan, H. R. 3462  
 Khan, J. 9007  
 Khan, K. I. 3685  
 Khan, L. 1528, 3006  
 Khan, M. 3588  
 Khan, M. A. 5303, 5894, 6375, 11604  
 Khan, M. A. Q. 8554  
 Khan, M. A. R. 3245, 3706  
 Khan, M. M. 1326, 1609, 6620, 9555  
 Khan, P. K. 7595  
 Khan, S. B. 8696  
 Khan, S. M. 11454  
 Khan, S. U. 2385, 4797, 5748, 8577, 12085  
 Khan, Z. R. 2829, 11246  
 Khandakar Shariful Islam 8739  
 Khandelwal, A. 9623  
 Khandkar, U. R. 11659  
 Khanna, S. C. 704  
 Khanvilkar, V. G. 8655  
 Kharat, S. B. 5569  
 Khare, B. P. 6888  
 Kharisov, R. Ya. 519  
 Khasanov, Kh. D. 518  
 Khater, A. 6388  
 Khatri, T. C. 1144  
 Khattab, A. D. 263  
 Khattrra, A. S. 9795  
 Khatun, M. 3932  
 Khdaif, A. I. 6136  
 Khehra, A. S. 6468  
 Khelil, M. A. 11759  
 Kher, S. 8728  
 Khera, S. 2202  
 Khetralis, A. R. 7865  
 Khiratkhar, S. D. 7844  
 Khlebodarova, T. M. 994, 5870  
 Khodzhaev, Sh. 746  
 Khokhar, K. M. 2498  
 Khokhar, K. S. 9119  
 Kholbekov, O. Kh. 4357  
 Khoualdia, O. 9900  
 Khound, J. N. 9884  
 Khristev, Kh. 7555  
 Khuda-Buksh, A. R. 1927  
 Khudaibergenov, M. 746  
 Khudaibergenova, B. M. 8206  
 Khuong-Huu, F. 609  
 Khurad, A. M. 8412  
 Kidd, G. 9530  
 Kidd, K. A. 2218  
 Kidd, N. A. C. 78, 2139, 3145, 4626, 5670  
 Kido, A. 10636  
 Kido, M. 6396  
 Kido, R. 3359  
 Kidokoro, T. 9387  
 Kidwell, M. 1037  
 Kieckhefer, R. W. 8633  
 Kiedrowski, Z. 1554  
 Kiemnec, G. L. 11025  
 Kien, J. 123  
 Kifune, N. 4807  
 Kifune, T. 4447  
 Kiguchi, K. 4129, 9154, 10123, 10150, 10243  
 Kikuchi, A. 9799  
 Kikuchi, F. 8027  
 Kikuchi, K. 3679  
 Kikuchi, O. 5824, 6085, 6607, 10014  
 Kilchenmann, V. 8571  
 Kilen, T. C. 3497  
 Kilgore, W. W. 5335  
 Kilinçer, N. 1580  
 Killeen, P. R. 6149  
 Killion, M. J. 6113  
 Killmon, M. 9674  
 Kim, A. I. 8206  
 Kim, A. J. 5687  
 Kim, B. J. 8087, 10080  
 Kim, B. K. 1044  
 Kim, C. H. 10366  
 Kim, C. S. 565, 632, 7709, 10171, 11821  
 Kim, D. K. 11747  
 Kim, D. S. 7334  
 Kim, G. H. 11595  
 Kim, H. H. 10448  
 Kim, H. R. 2901, 5937, 7086, 10176, 10197  
 Kim, H. S. 5672  
 Kim, I. L. 7935  
 Kim, J. B. 7979  
 Kim, J. I. 6230, 6951, 10082  
 Kim, J. K. 10366  
 Kim, J. W. 5835, 7537, 7636  
 Kim, K. C. 6025, 8249  
 Kim, K. J. 1933  
 Kim, K. S. 6543, 7740  
 Kim, K. W. 7180  
 Kim, M. H. 5487  
 Kim, M. K. 10433  
 Kim, S. H. 3828  
 Kim, S. J. 3887  
 Kim, S. P. 3733  
 Kim, S. S. 6025, 7534, 7534  
 Kim, S. Z. 3828  
 Kim, T. H. 301  
 Kim, T. S. 7979  
 Kim, W. K. 5937  
 Kim, Y. H. 6025  
 Kim, Y. K. 5691  
 Kim, H. S. 5437  
 Kim, S. K. 5487  
 Kimanani, E. K. 1296  
 Kimbrough, D. E. 2355  
 Kime, R. D. 11988  
 Kimemia, J. K. 3601  
 Kimsanbaev, Kh. Kh. 11823  
 Kimura, K. 1037  
 Kimura, K. I. 11200  
 Kimura, M. T. 6072, 7230  
 Kimura, S. 9625  
 Kimura, Y. 9563  
 Kinawy, M. M. 8617  
 Kindler, S. D. 4510, 6183, 6428  
 Kindlmann, P. 951, 5037, 5078, 8108  
 Kindvall, O. 10748  
 King, A. N. 5967  
 King, E. G. 4113, 6740  
 King, G. G. S. 1890  
 King, J. A. 2826  
 King, J. W. 1763  
 King, K. A. 11624  
 King, L. A. 8442  
 King, L. E. 5947  
 King, T. P. 8408  
 Kingan, T. G. 100, 1100, 9153, 9236  
 Kingsbury, P. D. 9600  
 Kingsolver, J. G. 6990  
 Kingsolver, J. M. 5821  
 Kinjo, K. 10792, 10835  
 Kinjo, T. 7853  
 Kinn, D. N. 9985  
 Kinney, K. K. 10936  
 Kinoshita, T. 10138  
 Kinuura, H. 9977  
 Kinzelbach, R. 10083, 10220  
 Kippenhan, M. G. 6983  
 Kirby, M. 9634  
 Kirby, M. L. 716, 8126  
 Kirchhoff, J. 2368  
 Kirchner, L. M. 7519  
 Kirchner, W. H. 3930, 11305  
 Kirfman, G. W. 6612  
 Kirihara, S. 10348  
 Kirillova, V. I. 943  
 Kiritani, K. 4500-4502  
 Kirk, D. 4536  
 Kirk, G. 11717  
 Kirk, K. L. 10427  
 Kirk-Spriggs, A. H. 3104  
 Kirkham, C. L. 4058  
 Kirkpatrick, D. 4338  
 Kirkpatrick, R. B. 10217  
 Kirkpatrick, T. L. 8840  
 Kirkwood, R. C. 9592  
 Kirpichnikova, E. 1020  
 Kirsch, K. 10863  
 Kirsch, P. 6575  
 Kirsch, P. A. 4480, 6640  
 Kirti, J. S. 10128  
 Kirton, L. G. 7906  
 Kish, L. P. 4175  
 Kishi, H. 9966  
 Kishimoto, D. 5333  
 Kishiyama, J. 8536  
 Kishore, P. 5432, 7686, 7693  
 Kishore, R. 297, 5730  
 Kishore, S. 9471  
 Kislin, E. N. 3442  
 Kispert, A. 11239  
 Kiss, A. 101, 3864  
 Kistner, D. H. 3778, 9090  
 Kitagaki, K. 7033  
 Kitagawa, O. 1044, 4044  
 Kitahara, M. 9338  
 Kitajima, E. W. 5594, 6544, 10892  
 Kitamizu, K. 5207  
 Kitamura, E. 10636  
 Kitamura, K. 8027  
 Kitamura, T. 10851  
 Kitinov, G. M. 1719  
 Kitayama, K. 3559, 11346  
 Kitili, J. 10303  
 Kitt, J. 1696  
 Kittel, K. 5203  
 Kittmann, R. 111  
 Kitzberger, T. 3656  
 Kiuchi, M. 10243  
 Kjær, C. 10696  
 Kjellberg, F. 10364  
 Klacan, G. R. 10709  
 Klaczko, L. B. 8180, 10130  
 Klaes, A. 7140  
 Klawekasetkorn, O. 1576  
 Klaime, S. J. 2356  
 Klämbt, C. 7140  
 Klaus, M. W. 1547  
 Klausnitzer, B. 8311-8312, 8377, 11977  
 Klay, A. 2513  
 Kleanthous, K. 5957  
 Kleespies, R. 1282  
 Kleespies, R. G. 7426, 7470, 9411  
 Kleier, D. A. 5365, 6310  
 Kleij, H. van der 5234  
 Kleiman, A. M. 10191  
 Klein, M. 5268, 6627, 7717, 8390, 8394, 8805, 10854, 10857  
 Klein, M. E. 2512  
 Klein, M. G. 791, 4066, 6054, 10009  
 Klein, R. W. 5630  
 Klein, S. 3322  
 Klein, U. 1098, 7085  
 Klein, Z. 3825  
 Kleindienst, H. U. 125, 5026  
 Kleiner, K. W. 1668  
 Kleinhenz, B. 230, 1420, 3423  
 Klementz, D. 8753  
 Klenk, H. D. 2052  
 Kligerman, A. D. 496  
 Kliman, R. M. 1004  
 Kliment, V. 4228  
 Klimetzek, D. 286, 1647  
 Klimisch, H. J. 7512



- Klingenberg, A. von 2130  
 Klinkhamer, P. G. L. 2748  
 Klironomos, J. N. 10292  
 Kloetzel, P. M. 11197-11198  
 Kloft, W. J. 5132  
 Klok, E. J. 7443  
 Klomp, G. 3406  
 Klopman, G. 8473  
 Kloppenburg, P. 5909  
 Kloter, U. 2979  
 Kluge, R. L. 822, 3294  
 Kluge, R. P. 2216  
 Klumpp, D. W. 6368  
 Klun, J. A. 4375  
 Klunness, L. M. 4109  
 Knauff, D. A. 4631, 10901  
 Knaust, H. J. 7643  
 Kňažská, V. 5305  
 Kneifl, V. 5532, 6112  
 Knesel, J. A. 7580  
 Knibbs, R. N. 2153  
 Knight, A. 8757  
 Knight, A. L. 3987, 6640, 11849, 11858  
 Knight, C. A. 5063  
 Knight, D. W. 4374  
 Knight, J. D. 2015, 4474, 6123  
 Knight, P. J. K. 11495  
 Knipe, C. R. 10568  
 Knipe, M. C. 11852  
 Knipple, D. C. 2960  
 Knisley, C. B. 4040, 7346  
 Knoflach, B. 11096  
 Knops, M. 1015  
 Knorn, K. 6839  
 Kňourková, J. 6112  
 Knowles, B. A. 3847  
 Knowles, C. O. 396, 441, 4264, 4977, 9585, 11590  
 Knowles, K. 8915  
 Knox, D. A. 8399  
 Knudsen, G. R. 6421  
 Knust, E. 155  
 Knuth, M. L. 8585  
 Kobayakawa, Y. 4983  
 Kobayashi, A. 7985  
 Kobayashi, H. 11874  
 Kobayashi, J. 1867  
 Kobayashi, K. 9625-9626  
 Kobayashi, M. 2972, 4120, 4438, 6219, 7203, 7372, 10123, 10394, 10575, 10577, 11501  
 Kobayashi, S. 11337  
 Kobayashi, T. 11149  
 Kobayasi, Y. 1182  
 Kobori, I. 6498  
 Kobrina, N. S. 1917  
 Koçak, H. 3086, 11359  
 Koch, P. B. 956, 3850, 10157, 11222  
 Koch, U. T. 3791  
 Koch, W. 7755  
 Kochaar, V. 8486  
 Kochansky, J. 3845  
 Kochansky, J. P. 1399, 2922, 7622, 11201  
 Kochar, J. K. 11652  
 Kochert, G. D. 162, 1046  
 Kochhar, V. 9261  
 Kock, A. C. de 3379  
 Kock, T. 7525  
 Kocourek, F. 5532, 5570, 6630, 6653, 10698, 10858  
 Kocsis, Z. 8901  
 Kočubovksi, M. 2345  
 Kodama, Y. 11583  
 Kodrik, D. 5883, 8231  
 Koehl, M. A. R. 6990  
 Koehler, H. 1124  
 Koelwijn, S. 7564  
 Koen, T. B. 10436  
 Koga, F. H. 8722  
 Koga, H. 4456  
 Koga, K. 194, 2148, 11178  
 Kogan, N. Ya. 5243  
 Koganezawa, H. 2456-2457  
 Koh, H. S. 565  
 Koh, S. J. 2522  
 Koh, Y. H. 11153  
 Kohama, T. 8492  
 Köhler, G. 8275-8277  
 Köhler, N. 2966  
 Köhler, U. 11184  
 Kohli, R. 852, 1066  
 Kohnle, U. 1694  
 Kohno, K. 6288-6289  
 Köhr, G. 10153  
 Koguchi, S. 7572  
 Koizumi, A. 11629  
 Koizumi, M. 9477  
 Kojima, J. 9980  
 Kojima, K. 6801  
 Kojima, M. 1352, 4151  
 Kok, L. T. 2764-2765, 6845, 7360, 9797  
 Kok, O. B. 2142  
 Kok-Yokomi, M. L. 4537, 6668, 11078, 11898  
 Kokpol, U. 1404, 6401  
 Kokubo, T. 1039  
 Kolarov, J. 11374  
 Kolb, F. L. 3436  
 Kolehmainen, E. 265  
 Kolehmainen, J. 5375, 7923  
 Kolesik, M. 1481  
 Kolesik, P. 1481  
 Koleva, R. 1559  
 Kolevska, L. 2345  
 Kolhe, A. V. 7844  
 Kolibachuk, D. 8347, 8422  
 Kollberg, U. 8221  
 Koller, W. W. 1464, 3480, 4455, 7721  
 Kolmes, S. A. 4271  
 Kolodny-Hirsch, D. M. 7504  
 Kolodochka, L. A. 7279  
 Kolohon, M. 10615  
 Koma, Y. 5685  
 Komarek, S. 1853  
 Komatsu, T. 6763, 7768  
 Komazaki, S. 3556, 4587, 7313  
 Komma, D. J. 1045  
 Komori, R. 10561  
 Komorowska-Jędrzy, J. 2499  
 Kondo, A. 568, 4074, 7710, 10732  
 Kondo, E. 5249, 8409  
 Konečný, I. 5589, 6726  
 König, H. 3236  
 König, J. 1077, 8876  
 Konishi, K. 10101  
 Konjin, H. P. E. 3281  
 Konno, Y. 7542  
 Kono, Y. 4094, 4346, 4923, 9575  
 Kononenko, V. S. 11375-11376  
 Konopski, L. 2062  
 Konradt, M. 2405, 2610  
 Konstantinova, G. E. 9523  
 Kooij, R. van 11636  
 Kookana, R. S. 3405  
 Kool, M. 5214, 11487  
 Koonce, K. L. 2719  
 Kooner, B. S. 3489  
 Koonin, E. V. 5216  
 Koopmanschap, A. B. 9235  
 Kooser, R. G. 1911  
 Kooyman, C. 7427  
 Kopelke, J. P. 10384  
 Köpf, A. 10205  
 Kopf, G. 2262, 10517  
 Kopjar, N. 5325, 11644  
 Köpmans, E. 11556  
 Kopp, B. 2718  
 Köppen, B. 10333  
 Koppenhöfer, A. M. 5550, 7841, 10874  
 Korashy, M. A. 11876  
 Korcz, A. 696  
 Koreneva, V. M. 1917  
 Koricheva, J. 4693, 8867-8868  
 Korman, A. K. 1977  
 Kormann, K. 11075  
 Kornfeld, G. 8171  
 Kornosor, S. 4037  
 Korochkin, L. I. 6000  
 Korol', I. T. 11794  
 Koromantzou, E. 8234  
 Kort, C. A. D. de 9235  
 Kort, W. L. A. M. de 4270  
 Korte, F. 3401  
 Korth, K. L. 1443  
 Kortier Davis, M. G. 3520  
 Korzukhin, M. D. 4028  
 Kosaka, H. 5248  
 Koshiya, D. J. 5582, 11941  
 Koshiyama, Y. 1865  
 Kosian, P. A. 1345, 8580, 10653-10654  
 Kosmowski, W. 1280  
 Kost, T. A. 11534  
 Kostadinova, P. 7555  
 Košťál, V. 6581, 9317  
 Koster, B. J. 472  
 Koster, M. D. 10655  
 Kosterin, O. E. 52  
 Kostia, D. 8060  
 Kostiainen, T. 4121-4122, 5518  
 Kostina, L. I. 11517  
 Kosuge, Y. 8492  
 Kosz, L. 997  
 Kot, L. 5332  
 Kotake, M. 6379  
 Kotaki, T. 5856  
 Kotanen, P. M. 2234  
 Kotani, E. 8222, 9152, -10221  
 Kotar, M. 6795  
 Kotasthane, A. S. 6501  
 Kotěra, L. 517  
 Kotikal, Y. K. 3446, 11428  
 Kotonya, R. 5316  
 Kotuč, J. 9847  
 Kou, G. H. 8426  
 Kou, R. 11215  
 Kouame, B. 4371, 4622  
 Kouassi, K. N. 1598  
 Koubaiti, K. 10896  
 Kouda-Bonafos, M. 7627  
 Kouevidjin, R. 1598  
 Kouki, J. 5620  
 Koul, A. 11871  
 Koul, O. 1389, 4348  
 Koul, V. K. 11837  
 Kouloussis, N. A. 6699, 11914  
 Koumaglo, K. H. 6865  
 Koupuri, A. Kashouli- 1315  
 Kourgia, M. K. 3403  
 Kourti, A. 10233  
 Kouskolekas, C. A. 4611, 9906  
 Koutek, B. 11687  
 Kovac, D. 11126  
 Kovac, H. 966, 1221  
 Kovach, J. 4561, 6648  
 Kovacs, I. V. 9260  
 Kovaleski, A. 4076  
 Kovalev, B. G. 520  
 Kovalyov, B. G. 4359  
 Koveos, D. S. 4005  
 Kovoov, J. 8136  
 Kovtyukh, L. P. 6000  
 Kowitz, W. J. 5719  
 Koya, K. M. A. 1734  
 Koyama, J. 10460  
 Koyama, K. 10354, 10562  
 Koyama, M. 11583  
 Koyama, S. 11547  
 Kožánek, M. 10110  
 Kozár, F. 651, 920, 7978  
 Kozlov, M. V. 10296, 11686  
 Kozlovskaya, V. I. 90  
 Kozma, S. C. 5236  
 Kožuch, J. 7959  
 Kozuma, K. 4148  
 Kpindou, D. 280  
 Kraaijeveld, A. R. 306, 332, 6065, 10365, 11310  
 Krafft, B. 1204, 5151  
 Krafur, E. S. 10145, 10223, 10225  
 Kraft, R. 2896  
 Krag, C. R. 6421  
 Kraker, J. de 6594  
 Kral, G. 1431, 9663  
 Kral, K. 5923  
 Králíková, A. 3105  
 Krall, S. 1728, 2289, 3731, 4079  
 Kramer, D. 8273  
 Kramer, K. J. 6249, 8143, 8172, 9163  
 Krämer, P. M. 3397  
 Kramer, S. J. 1946  
 Krammer, K. 11393  
 Krannitz, S. H. 1890  
 Kranz, J. 2324, 11814  
 Kranz, P. 11425  
 Krasnoff, S. B. 1302, 4149, 9512  
 Krasnopolskaya, L. M. 1917  
 Krasomil-Osterfeld, K. 7404  
 Krasutskii, B. V. 10057  
 Krasuykova, Ya. F. 11724  
 Kraus, B. 3947, 4123, 7353  
 Kraus, J. E. 5687  
 Kraus, K. 5929  
 Kraus, M. E. 9243  
 Krause, S. C. 7954  
 Krause, U. 1423  
 Krause-Opatz, B. 11184  
 Krauter, P. C. 6969  
 Krauthacker, B. 7561  
 Krauthausen, H. J. 10796  
 Kravitz, N. G. 7123  
 Krczal, G. 7976  
 Krebs, R. A. 1950, 3000, 6066, 6082, 8185  
 Krehan, H. 10954  
 Kreiter, S. 1209  
 Kreitman, M. 2952  
 Krell, F. T. 1601, 5816  
 Krell, P. J. 6253, 11482  
 Kremen, C. 3024  
 Kremer, R. J. 498  
 Krenn, H. W. 941, 2873, 3173  
 Krenn, L. 2718  
 Kreowski, W. B. 9836  
 Krespi, L. 60  
 Kress, H. 3886  
 Kress, K. 153  
 Kreuger, B. 6808  
 Kreutzweiser, D. P. 4313, 8543  
 Kreuzberg, A. V. A. 7009  
 Kridler, H. M. 9463  
 Krief, A. 260  
 Krieger, R. 3171  
 Krieger, R. I. 1357, 1361  
 Krige, F. 8544  
 Kring, T. J. 1758, 9421, 9715  
 Krishna, J. G. 6474  
 Krishna Murty, G. V. G. 8007  
 Krishnaiah, K. 7631  
 Krishnaiah, N. V. 1608, 5436, 7707  
 Krishnakumari, M. K. 1373, 6869  
 Krishnamoorthy, A. 5340, 9903  
 Krishnamurthy, K. C. 8017  
 Krishnamurthy, T. S. 6869  
 Krishnamurthy, G. H. 11701  
 Krishnan, A. 10165  
 Krishnan, M. 11272  
 Krishnappa, C. 8017  
 Krishnappa, M. R. 2461  
 Krishnayya, P. V. 8477  
 Krissoff, B. 9620  
 Kristensen, C. O. 620  
 Krizmanić, M. 1594  
 Krnjajić, Đ. 1262  
 Krnjajić, S. 1262, 1539, 6466  
 Krogh, P. H. 10629  
 Krogh, T. N. 5945  
 Krohn, K. 11068  
 Krombein, K. V. 6986, 11111  
 Kronert, W. A. 10216  
 Kronstedt, T. 5049  
 Kroschel, J. 7755  
 Krough, T. N. 8118  
 Kr'stev, A. 7555  
 Krueger, C. A. 4460  
 Kruss, A. 4462  
 Krug, E. 4970  
 Krüger, E. 5527, 6626, 7602  
 Krukowski, R. 10381  
 Krumpálová, Z. 3099, 4021  
 Krupa, D. A. 9999  
 Krusteva, I. 5891  
 Krysan, J. L. 4262  
 Kryzhanovskiy, O. L. 10293  
 Kshemkalyani, S. B. 6235  
 Ku, C. C. 5948, 8504  
 Ku, H. C. 3216, 10336  
 Ku, S. C. 2105  
 Kuah, K. 997



- Kuang, H. Y. 10097, 10104  
 Kuang, R. P. 8292  
 Kuang, X. C. 8941  
 Kuang, X. Q. 9345  
 Kubán, V. 11129  
 Kubata, K. B. 3003  
 Kubelka, V. 8171  
 Kuberappa, G. C. 3459  
 Kubiak, T. J. 3355-3356  
 Kubli, E. 11232  
 Kubo, I. 8608  
 Kuboki, M. 5707  
 Kubota, T. 10350  
 Kučerová, L. 10804  
 Kučerová, Z. 6121, 12083  
 Kuchin, A. V. 3304  
 Kuchlein, J. H. 1117, 10952  
 Kucklick, J. R. 4322  
 Kudagamage, C. 4438  
 Kudo, M. 11568  
 Kudô, S. I. 3671, 9313  
 Kufcsák, O. 452, 8547  
 Kugler, C. 11114  
 Kugusheva, L. I. 4253  
 Kuhl, G. 6262  
 Kuhlmann, U. 305, 314  
 Kuhn, D. G. 261  
 Kühn, L. C. 4925  
 Kühn, S. 962  
 Kühner, M. 1083  
 Kühneverté 9967  
 Kühnholz, S. 5140  
 Kuhnigk, T. 3236  
 Kuhnisch, A. 2547  
 Kuiper, H. A. 634  
 Kuivila, K. M. 11657  
 Kukal, O. 11302  
 Kukulová-Peck, J. 927  
 Kukel, C. D. 2278  
 Kukovinets, O. S. 521  
 Kula, H. 6369  
 Kulakosky, P. C. 7103  
 Kulat, S. S. 3580  
 Kulczynski, S. M. 4203  
 Kuldkepp, P. 10695  
 Kuldová, J. 4349  
 Kulesz, C. A. 7454  
 Kulesza, C. A. 7453  
 Kulesza, P. 10192  
 Kulfan, J. 3077, 11987, 12015  
 Kulieva, A. M. 4253  
 Kulkarni, A. B. 5197  
 Kullberg, A. 3081  
 Kumada, Y. 7157  
 Kumar, A. 1202, 1735, 7585, 7795, 9341, 9609  
 Kumar, A. R. V. 1751  
 Kumar, D. 2904, 7595, 10578  
 Kumar, D. A. 1493  
 Kumar, G. R. 10140  
 Kumar, G. T. 3070  
 Kumar, H. 1434, 4413, 4427, 9806  
 Kumar, J. 677, 7458, 7585  
 Kumar, K. 2147  
 Kumar, M. 4329, 8583  
 Kumar, M. G. 2459, 7696  
 Kumar, N. R. 7793  
 Kumar, P. 297, 5730, 7008, 9488, 10578, 11946  
 Kumar, P. R. 9912  
 Kumar, R. 1541, 2222, 10813  
 Kumar, S. 6717, 7666, 7774, 7795, 11576, 11942  
 Kumar, T. N. J. 1588  
 Kumar, T. P. 340  
 Kumar, V. 1720, 5513, 6592, 6706, 6823, 10395, 11205  
 Kumar, V. P. K. 7678  
 Kumar, Y. 685  
 Kumaran, A. K. 8231  
 Kumaran, P. L. 2347  
 Kumaraswamy, M. 5752, 7968  
 Kumaresan, D. 1733  
 Kumari, K. 2367  
 Kumata, T. 1824  
 Kumbhat, S. 3150  
 Kumud Misra 3249  
 Kundu, G. G. 9749  
 Kundu, R. 951, 5027, 6721, 8250  
 Kuniata, L. S. 1752, 4637  
 Kunimi, Y. 309  
 Kunimoto, Y. 789, 10999  
 Kuniyoshi, H. 984, 8222  
 Kunjadia, C. D. 11944-11945  
 Künzel, K. 1556  
 Kuo-Sell, H. L. 9698  
 Kuoh, C. L. 11082  
 Kuperus, W. R. 5985  
 Kurahashi, H. 4047  
 Kurata, K. 7031  
 Kurata, S. 11490  
 Kurata, Y. 6360  
 Kurczewski, F. E. 1986, 8373  
 Kurhade, S. M. 11118  
 Kurihara, A. 10938  
 Kurihara, M. 5224, 9507  
 Kurihara, N. 5333, 7582, 9547, 10672  
 Kurnlein, R. R. C. 7267  
 Kuroda, E. 5231  
 Kuroda, M. I. 5000  
 Kuroguchi, S. 6498  
 Kurokawa, M. 9154  
 Kuroki, H. 1342  
 Kuropat, C. A. 2336  
 Kurosa, K. 11116  
 Kurosawa, Y. 4862  
 Kurosu, U. 4765, 4832, 6774, 10111, 10956  
 Kurppa, S. 3369, 3578  
 Kurt, E. 5215  
 Kurti, T. J. 2179, 9493  
 Kurusu, S. 11492  
 Kurz, J. 2383  
 Kuschei, G. 8091  
 Kuschka, V. 5828  
 Kushida, T. 2694, 7952  
 Kushiev, Kh. Kh. 3816  
 Kushita, T. 9563  
 Kushnak, G. D. 6432  
 Kushwaha, K. S. 9472, 9533  
 Kusiak, C. 7976  
 Kusigemati, K. 1825, 6588, 9062-9063  
 Kusińska, A. 9415  
 Kusmayadi, A. 6482  
 Kusum Kumari 10651  
 Kuszala, C. 10868  
 Kutasi, Cs. 7803  
 Kutcher, G. 9968  
 Kütche, K. 4414, 10907  
 Kutsch, W. 93  
 Kutty, G. 10208  
 Kuusik, A. 2902  
 Kuussaari, M. 4027  
 Kuwahara, S. 3142  
 Kuwahara, Y. 98, 974, 4811, 4934, 7105  
 Kuwani, E. 2148  
 Kuwano, E. 11680  
 Kuwasawa, K. 9154  
 Kuwatsuka, S. 11670  
 Kuwazawa, K. 12034  
 Kuzin, A. B. 8206  
 Kuznetsova, N. I. 9523  
 Kuznetsova, V. G. 943, 1928  
 Kvien, C. K. 3586  
 Kwak, Y. H. 6976, 12026  
 Kwanyuen, P. 496  
 Kwon, J. H. 11700  
 Kwok, W. 7125  
 Kwon, C. S. 10632  
 Kwon, D. W. 7019  
 Kwon, H. W. 11700  
 Kwon, O. K. 1158, 5691  
 Kwon, Y. J. 11120-11121  
 Kwon, Y. R. 7946  
 Kwon, Y. W. 11156  
 Kwong, R. M. 4707-4710  
 Kyamanywa, S. 6417  
 Kylin, H. 5671  
 Kyomura, N. 7540  
 Kyriacou, C. P. 2975, 2993, 3902, 8184  
 Kyriakides, T. R. 85, 4912, 10201, 11217  
 Kytö, M. 1687  
 Kyung, K. S. 567  
 La Bourdonnaye, D. de 1209  
 La Colina, C. de 5292  
 La Greca, M. 9100  
 La Guardia, M. de 411, 1377  
 La Notte, E. 11884  
 La Porta, N. C. 11773  
 La Porta, P. 434, 4258  
 La Rosa, W. de 3915  
 La Rossa, F. R. 3631  
 La Torre, M. C. de 2735  
 Laakso, J. A. 4229  
 Łabanowska, B. H. 1553, 6663  
 Łabanowski, G. 1514, 1712, 6812  
 Labat, M. 1235  
 Labatte, J. 4428  
 Labbé, C. 5381  
 Laborda, R. 2131  
 Laborius, G. A. 1771  
 Labrador, M. 9232  
 Labuschagne, T. I. 2582  
 Lačej, F. 6809  
 Lacey, L. 7717  
 Lacey, L. A. 2189, 3279, 6054, 8434, 9497  
 Lachaise, D. 3881  
 Lachance, C. 730  
 Lachance, M. A. 11361  
 Lachaud, J. P. 282, 3950, 5131, 7194  
 Lacher, T. E., Jr. 8553  
 Lacorte, S. 4345  
 Lacsamana, M. S. 4135  
 Lactin, D. J. 4429, 8680, 9397  
 Ladan, S. S. 6202  
 Ladd, T. R. 9207  
 Ladendorff, N. E. 3865  
 Ladenkova, I. M. 3304, 8603  
 Ladevèze, V. 5015  
 Ladics, G. S. 8534  
 Ladugue, N. 766  
 Lafont, R. 5932, 11218, 11223  
 Lafontaine, J. D. 5456  
 Lagadic, L. 4247  
 Laganaoui, A. 7441  
 Lagnel, J. 4195, 4200  
 Lagueux, M. 8117  
 Lagunes-Tejeda, A. 447, 6256  
 Lahtiperä, M. 10969  
 Lai, C. 10227  
 Lai, C. B. 3599, 7495  
 Lai, C. Y. 8220  
 Lai-Fook, J. 4199  
 Laiche, A. J., Jr. 4277  
 Laing, J. E. 1215, 7363, 8280, 9433  
 Laing, W. A. 279, 1468, 9160  
 Lajide, L. 803, 5281, 5369  
 Lake, A. W. H. 11764  
 Lake, C. A. 3372  
 Lake, F. K. 5993  
 Lake, J. L. 3372  
 Laker, H. A. 10911  
 Lakes, R. 989  
 Lakes-Harlan, R. 9192  
 Lakey, A. 1405  
 Lakovaara, S. 8300  
 Lakra, R. K. 1447, 8783, 11734  
 Laks, P. E. 3698, 5731, 11039  
 Lakshman Lal 2502  
 Lakshminarayan, K. 6665  
 Lakshminarayana, K. 4278  
 Lakshminarayana, M. 1607  
 Lakshminpathi, V. 9164  
 Lal, L. 2502  
 Lal, O. P. 5499  
 Lal, P. 7986  
 Lal, R. 6367  
 Lal, S. N. 1264, 7884  
 Lal, S. S. 6546  
 Lallanne-Cassou, B. 9068, 10678  
 Lalitha, K. 3820  
 Lall, S. B. 2147  
 Lalonde, R. G. 4607, 5728  
 Lalumière, M. 7445  
 Lamas, G. 6948  
 Lamb, R. J. 174, 2402, 4390, 4619, 9965  
 Lamballe, P. 10744  
 Lambdin, P. 5840  
 Lamberson, J. O. 3377  
 Lambert, A. L. 10757  
 Lambert, B. 2162  
 Lambert, D. 9207, 11684  
 Lambert, D. M. 527, 11280  
 Lambert, J. J. 11268  
 Lambert, L. 3497  
 Lambert, L. L. 2487  
 Lambert, W. R. 6735  
 Lamberti, A. 2169  
 Lambkin, K. J. 6954  
 Lambkin, T. M. 6680  
 Lamborot Ch., L. 10706  
 Lambropoulou, M. 4932  
 Lamiot, E. 7626  
 Lammers, J. H. M. 9235  
 Lammers, P. M. 4397  
 Lamont, P. S. 1451  
 Lamp, W. O. 863, 2479, 6026, 7576  
 Lampe, D. J. 7129  
 Lampel, G. 935  
 Lampert, E. P. 102, 4647, 6321  
 Lampman, W. 8480  
 Lampo, M. 1448, 1466  
 LaMunyon, C. W. 69, 9201  
 Lan, N. C. 11268  
 Lan, S. J. 2339  
 Lan, S. Y. 10729  
 Lancashire, P. D. 6917  
 Lance, D. R. 6456, 7506  
 Landau, Z. 4157, 5211, 7974, 8443  
 Landau, I. 4353  
 Landecker, H. L. 8183  
 Landén, R. 10404  
 Landers, D. H. 6913  
 Landgraf, M. D. 7611  
 Landi, S. 5155, 10005, 12027  
 Landis, D. A. 2316, 3193, 5392  
 Landolt, P. J. 431, 705, 1572, 2588, 4602, 7891, 10172, 10920  
 Landrigan, P. J. 2306  
 Landry, B. 1804, 5091, 7303  
 Landry, G. W. 4757  
 Landry, J. F. 1797, 5072, 7303, 9089  
 Lane, A. 11065-11066  
 Lane, J. D. 4882  
 Lane, N. J. 4917  
 Lane, S. 12101  
 Láng, G. 452, 8547  
 Lang, L. J. 874  
 Langdon, A. G. 11663  
 Lange, A. B. 7067, 11211  
 Lange, C. E. 4213  
 Lange, E. 5524  
 Lange, O. L. 2740, 8610  
 Lange, R. P. J. de 136  
 Langeland, J. A. 8099  
 Langer, V. 621  
 Langewald, J. 10712, 11797  
 Langin, T. 5008  
 Langiu, G. 5645  
 Langley, C. H. 3871, 9246, 10227  
 Langmaid, J. R. 4039  
 Långström, B. 761, 2702  
 Lanini, W. T. 10684  
 Lanio, W. 3886  
 Lankester, M. W. 10403  
 Lanner-Herrera, C. 1253  
 Lannoye, R. 3259  
 Lanot, R. 1916  
 Lanszki, I. 11033  
 Lanteri, A. A. 2846  
 Lantz, S. E. 5107  
 Lantz, V. 4997  
 Lanz, B. 12071  
 Lanz, S. 5761  
 Lanzavecchia, S. 928  
 Lanzrein, B. 316, 5215  
 Lao, X. M. 10372  
 Lapa, A. M. 2561  
 Lapchin, L. 4592  
 Laperche, V. 4032  
 Lapietra, G. 10946  
 LaPoint, T. W. 11626  
 Lapointe, R. 8691, 8693  
 Lapointe, S. L. 2474, 5454, 5457, 7720  
 Lappa, N. V. 9774  
 Lappalainen, J. 8868



- Lara, F. M. 1628, 2486, 4412, 8642, 8831  
 Laranjeiro, A. J. 739, 3637  
 Lardner, R. M. 8266  
 Lari, L. 2288  
 Larios, J. F. 6697  
 Larkin, J. P. 10343  
 LaRoche, S. L. 6176  
 Larriva, W. 7528  
 Larroque, C. 5884  
 Larrue, J. 5252, 9217, 9879  
 Larruga, J. M. 5014  
 Larsen, B. 471  
 Larsen, B. R. 4312  
 Larsen, J. S. 8645  
 Larsen, K. J. 4019, 5162  
 Larsen, S. W. 3651  
 Larsen, T. B. 3748  
 Larsson, R. 7767  
 Larsson, S. 2410, 4705, 10262  
 Lartiges, S. B. 10638  
 LaSalle, J. 902, 1807, 5425, 8054, 8092-8093  
 Lashbrook, J. M. 7076  
 Lasko, P. F. 1900  
 Lasota, J. 2294  
 Lasota, J. A. 11849  
 Laster, M. L. 9257, 11421  
 Lastra, R. 4591  
 László, P. 7864  
 Latge, J. P. 7419  
 Latha, C. R. P. 1473  
 Latha, S. 7968  
 Lathe, W. C. 5961  
 Latheef, M. A. 8842, 11968  
 Lathullerie, J. M. 1108  
 Latimer, J. G. 7781, 11640  
 Latorre, A. 1041, 4926  
 Lattin, J. D. 10745  
 Lattke, J. E. 5782  
 Lau, D. M. 4792  
 Lau, P. Y. 5320  
 Lau, W. Y. 5271  
 Laubscher, J. M. 542  
 Laudonia, S. 6173  
 Lauenstein, G. 11722  
 Laugé, G. 2007  
 Laughlin, S. B. 5922, 7083, 8155  
 Laughon, A. 7136  
 Laukkanen, M. 10153  
 Launer, A. E. 10930  
 Laurel, M. 3807  
 Lauriano, C. 4241  
 Lautenschlager, R. A. 10403, 10933  
 Lauerjrat, S. 4968  
 Lavallée, R. 4719, 4726  
 Lavenseau, L. 3977, 7018  
 Lavigne, M. È. 11322  
 Lavigne, R. J. 4038, 7340  
 Lavy, T. L. 3315, 5756, 10667  
 Law, J. H. 5946, 7103, 8202  
 Lawand, P. C. 1613, 1615  
 Lawler, S. P. 5082  
 Lawn, A. 1035  
 Lawrence, A. M. 4657  
 Lawrence, J. F. 2292, 4878  
 Lawrence, P. O. 3856  
 Lawrence, R. K. 6793  
 Lawrie, A. M. 8442  
 Laws, S. C. 11606  
 Lawson, A. B. 2558  
 Lawson, D. M. 10481  
 Lawson, D. S. 4551, 4553  
 Lawson, H. M. 2250  
 Lawson, S. 8920  
 Lawson, V. F. 6902  
 Lawton, J. H. 5082, 8946, 9422, 10119, 12029  
 Layland, J. K. 9559  
 Layne, J. R., Jr. 3670  
 Layton, J. M. 7193  
 Lazarchik, S. B. 7100  
 Lázaro, R. 5336  
 Lazarova, G. 11338  
 Lazauskas, P. 11034  
 Lazebny, O. E. 2994  
 Le Blanc, J. P. R. 607, 8948  
 Le Bourge, E. 8115  
 Le Bourgeois, T. 2221  
 Le Diambo, B. 8704  
 Le Gallic, J. F. 1512, 7640-7641  
 Le Masurier, A. D. 313, 4509  
 Le Moli, F. 2097, 5138  
 Le Quang, D. 10261  
 Le Quere, J. L. 766  
 Le Roux, J. 2414  
 Le Rü, B. 609, 4498, 5480, 8712  
 Leach, C. K. 11283  
 Leach, J. A. 3889  
 Leage, M. 1235  
 Leahy, T. 11731  
 Leal, S. C. M. 1393, 4065, 6222  
 Leal, W. S. 266, 557, 1891-1892, 2766, 4358, 4546, 4935, 7629, 10184  
 Lean, D. R. S. 9598, 10625  
 Leandri, A. 11930  
 Learmonth, S. E. 9779  
 Leatemia, J. A. 9433  
 Leath, K. T. 3482  
 Leather, S. R. 5623, 6914, 7901, 12003  
 Leathers, T. D. 6226  
 Leborgne, R. 5151  
 Lecadet, M. M. 10425  
 Lecharpentier, P. 4575  
 Leclaire, M. 10986  
 Leclant, F. 7889, 9676  
 Leclerc, R. F. 8217  
 Lecoq, M. 9147  
 Lecrone, S. H. 2517  
 Lecuona, R. E. 8419  
 Leddy, P. M. 11335  
 Ledneva, V. A. 6560  
 Ledson, T. M. 4658  
 Lee, A. H. 3338  
 Lee, B. 11430  
 Lee, B. H. 54, 7019  
 Lee, B. L. 11490  
 Lee, B. Y. 6701  
 Lee, C. C. 1933  
 Lee, C. E. 11373  
 Lee, C. H. 8426  
 Lee, C. L. 10192  
 Lee, C. Y. 7935  
 Lee, H. 11482  
 Lee, H. B. 10568  
 Lee, H. H. 2181  
 Lee, H. I. 4904  
 Lee, H., II 3377  
 Lee, H. J. 2968, 6324, 7314, 8724, 11323  
 Lee, H. P. 5437  
 Lee, H. R. 7536-7537  
 Lee, H. S. 5691  
 Lee, I. H. 2901, 7536-7537  
 Lee, I. M. 4208  
 Lee, J. A. 2181  
 Lee, J. C. 1237  
 Lee, J. E. 4856, 11080  
 Lee, J. G. 1275  
 Lee, J. H. 7334, 7535, 11748  
 Lee, J. K. 567  
 Lee, J. O. 7982  
 Lee, J. W. 3218, 4042, 7536, 10085, 11079  
 Lee, J. Y. 7355  
 Lee, K. 4275, 11603  
 Lee, K. C. 669  
 Lee, K. R. 4904  
 Lee, K. T. 10490  
 Lee, K. Y. 2181  
 Lee, M. H. 3469, 5526  
 Lee, M. J. 6142, 8127, 10155-10156, 10158  
 Lee, M. P. 1925  
 Lee, M. R. 9316  
 Lee, N. 11678  
 Lee, R. E., Jr. 4019, 9316  
 Lee, R. F. 4591  
 Lee, R. W. K. 4930  
 Lee, S. 8402, 9223  
 Lee, S. C. 7534, 11594  
 Lee, S. D. 7086  
 Lee, S. G. 7982  
 Lee, S. H. 6599  
 Lee, S. P. 1238, 6701  
 Lee, S. S. 7086  
 Lee, S. W. 2550, 5526  
 Lee, S. Y. 11490  
 Lee, T. J. 10226  
 Lee, W. H. 7003, 11156  
 Lee, W. K. 12026  
 Lee, Y. I. 2550  
 Lee, Y. K. 1237  
 Lee, Y. S. 7979  
 Lee KeyWan 4275  
 Leech, R. 4825, 5154  
 Leesch, J. G. 11040, 12069  
 Leeuwangh, P. 2350  
 Lefebvre, B. 8567  
 Lefkovitch, L. P. 5875-5876  
 Lefol, C. 5252  
 Legal, L. 1724, 5693  
 Legaspi, B. C., Jr. 2890  
 Legaspi, J. C. 2890, 3133, 4106  
 Légère, A. 5953  
 Legg, D. E. 4223, 7649  
 Legg, J. P. 5433  
 Leggett, J. 706  
 Leggett, J. E. 3620, 4663  
 Legrand, A. I. 8641  
 Lehmann, M. 1027  
 Lehmborg, E. 4259  
 Lehotay, S. J. 9393-9394  
 Lehtoma, K. 165  
 Lei, C. L. 9446  
 Lei, M. 8936  
 Lei, S. F. 2201  
 Lei, X. D. 1942  
 Leibee, G. L. 10803  
 Leicht, B. G. 1026  
 Leicht, W. 4247  
 Leidy, R. 7545  
 Leidy, R. B. 4342  
 Leigh, E. G., Jr. 7900  
 Leigh, T. F. 4661, 10916  
 Leibold, R. J. 2080  
 Leiserson, W. M. 8212  
 Leist, K. H. 8582  
 Leistra, M. 11676  
 Leisy, D. J. 6252, 7347  
 Leitão, A. E. F. 7487  
 Leite, D. 8733  
 Leite, L. G. 7487  
 Lejeune, B. 7983  
 Lelley, J. 6839  
 Lemaitre, C. 3138  
 Lemeunier, F. 2992, 5015  
 Lemieux, C. 4333, 7613  
 Lemley, A. T. 413  
 Lemmich, E. 802  
 Lemmon, C. R. 2708, 4379  
 Lemoine, B. 8904  
 Lemon, R. W. 4246  
 Lemon, W. C. 11206  
 Lemos, M. A. 2431  
 Lempérière, G. 1697, 1704  
 Lempke, B. J. 1167  
 Lenczewski, B. 431  
 Lenfant, C. 4565, 12044  
 Lenga, A. 228  
 Lenghaus, C. 3378  
 Lengwiler, U. 446  
 Lenhard, G. J. 11982  
 Lenčák, J. 7607  
 Lennon, D. J. 2054  
 Lenoir, A. 3186, 4681-4682  
 Lenteren, J. C. van 3968, 5258, 7197, 7332, 12098  
 Lentini, A. 5645  
 Lentz, G. L. 4617  
 Lentza-Rizos, C. 7567, 12078  
 Lenz, M. 5139, 8167  
 Leo, A. di 11844  
 León, J. 2779  
 León, R. 6311  
 León, R. P. de 8002  
 Leon Alvarez, I. E. 10790  
 Leon Cortes, J. L. 7269  
 León G., R. 601  
 León M., G. A. 5031  
 Leonard, B. R. 1474, 2625, 4470, 6736, 8506, 9584  
 Leonard, J. G. 3927  
 Leonard, K. R. 1405  
 Leonardi, M. G. 2930  
 Leong, E. C. W. 5271  
 Leong, K. L. H. 9289, 10144  
 Leonhardt, B. A. 3867, 4367, 6285  
 Leonzio, C. 2288  
 Leos-Martínez, J. 8349  
 Lepesant, J. A. 82, 3887  
 Lepier, A. 2929  
 Lépiz C., C. 601  
 Lepore, A. R. 2315  
 Lepp, N. W. 10988-10989, 11771  
 Leptin, M. 11239  
 Lerch, R. A. 10426  
 Lereclus, D. 7387, 10425, 11491  
 Lerenius, C. 1300, 11760  
 Lerin, J. 8683, 10896  
 Lerner, M. R. 991  
 Lersch, R. A. 5960  
 Lery, X. 1598, 7441-7442  
 Lescano, H. G. 6106  
 Leschen, R. A. B. 5943, 6032  
 Lesieux, C. 11717  
 Lesovoi, M. 6445, 6450  
 Lessells, C. M. 3058  
 Lester, J. N. 4344  
 Lester, R. J. G. 2180  
 Leszczynski, B. 3813, 11720  
 Lesznayák, M. 4546  
 Letellier, C. 6901, 10035  
 Letourmy, P. 2138, 4000  
 Letourneau, D. K. 1643, 3499  
 Lett, R. M. 8472  
 Lettere, M. 5673  
 Leung, P. S. 137, 4969  
 Leuthold, R. H. 2942, 5187, 8397  
 Levanon, D. 2362  
 Levene, B. C. 10764  
 Levesque, C. 4571, 5533, 6662  
 Levesque, G. Y. 4571, 5533, 6662  
 Levey, D. J. 5137  
 Levi, B. Z. 10409  
 Levi, T. 5567  
 Lévioux, J. 3284, 4734, 6024, 6760  
 Levieux, J. 8904  
 Levin, D. M. 10704  
 Levin, R. E. 10489  
 Levine, E. 4425  
 Levine, M. 1005, 7141  
 Levine, R. B. 119, 11206  
 Levine, R. S. 1356  
 Levings, C. S., III 1443  
 Levings, K. J. 4548  
 Levinson, A. 1768, 11191  
 Levinson, H. 1768, 11191  
 Lévy, A. 7940  
 Lewin, E. E. 7321  
 Lewinsohn, D. 8995  
 Lewinsohn, E. 8995  
 Lewinsohn, T. M. 11014  
 Lewis, B. E. 11716  
 Lewis, D. L. 11262  
 Lewis, D. R. 9844  
 Lewis, E. E. 7475, 8415  
 Lewis, G. B. 2335  
 Lewis, J. 6134  
 Lewis, L. C. 2435, 4423, 10370  
 Lewis, M. A. 2357  
 Lewis, R. D. 3874  
 Lewis, R. G. 255, 10571  
 Lewis, R. V. 4942  
 Lewis, S. M. 4111  
 Lewis, T. 5759  
 Lewis, T. M. 8766  
 Lewis, W. J. 3041, 6735  
 Lextrait, P. 7057  
 Ley, S. V. 525, 1731, 9549, 10339  
 Leyssens, A. 4087, 11196  
 Leyva, K. J. 9998  
 Lezama-Gutiérrez, R. 2199  
 Lezaun, M. 8564  
 Lherminier, J. 5252  
 Li, B. Q. 9969  
 Li, B. W. 8659, 11795  
 Li, B. X. 10255  
 Li, B. Y. 8659  
 Li, C. 10734  
 Li, C. C. 7315



Li, C. D. 8102  
Li, C. S. 8661, 9677  
Li, C. Y. 3433  
Li, D. 4059  
Li, D. C. 3654  
Li, D. J. 8284  
Li, D. M. 242  
Li, D. P. 2307, 9496  
Li, D. Q. 9428  
Li, F. C. 3254  
Li, F. H. 14  
Li, G. C. 3392, 5093  
Li, G. Q. 8514  
Li, G. T. 2557  
Li, G. X. 4128, 5186  
Li, G. Y. 9949  
Li, H. 2447, 9731  
Li, H. C. 8675  
Li, H. F. 8168, 8342  
Li, H. H. 5807  
Li, J. 1890, 2056, 6051, 11975  
Li, J. B. 6788  
Li, J. D. 10079  
Li, J. K. 10290  
Li, J. L. 312  
Li, J. P. 5868, 6537  
Li, J. R. 3094, 9342  
Li, J. W. 10753  
Li, J. X. 4379, 7058  
Li, K. F. 11387  
Li, K. H. K. 6104  
Li, L. 9001  
Li, L. H. 9848  
Li, L. P. 4332  
Li, L. S. 8026, 10964  
Li, L. T. 10274  
Li, M. G. 11963  
Li, M. M. 7668  
Li, Q. 3295, 3829, 10079  
Li, Q. S. 4649  
Li, R. 10202  
Li, R. J. 7933  
Li, S. 11144  
Li, S. G. 10690  
Li, S. Q. 10688  
Li, S. W. 3035, 10889  
Li, S. X. 11847  
Li, S. Y. 185, 9516, 9854  
Li, S. Z. 8069, 10274  
Li, T. 3233  
Li, T. X. 3491  
Li, T. Y. 559  
Li, W. C. 11248  
Li, W. D. 10255  
Li, W. G. 9227  
Li, W. W. 5272, 10210  
Li, W. Z. 10210  
Li, X. 3662, 7431, 7439-7440  
Li, X. C. 6820, 9345  
Li, X. E. 7127  
Li, X. H. 4673  
Li, X. M. 2359  
Li, X. R. 9861, 10688  
Li, X. Z. 9052  
Li, Y. 8238, 8668, 9929, 10255  
Li, Y. S. 10210, 11455  
Li, Y. W. 8  
Li, Y. X. 8139, 10104  
Li, Y. Y. 1964  
Li, Y. Z. 6788  
Li, Z. H. 1861, 2640, 3097, 9369  
Li, Z. J. 7703  
Li, Z. L. 8279  
Li, Z. P. 1942  
Li, Z. Q. 3516  
Li, Z. Y. 1173  
Li, Z. Z. 2155  
Liadousse, I. 5862, 9215  
Liang, A. G. 9848  
Liang, B. 8465  
Liang, C. 9163, 9230  
Liang, E. P. 6359  
Liang, G. 5067  
Liang, G. Q. 7327, 8341  
Liang, Q. W. 779  
Liang, W. G. 668  
Liang, X. M. 2308, 6169  
Liang, X. Y. 9944  
Liang, Z. H. 9720  
Liao, J. W. 3278  
Liao, S. T. 3253  
Liapis, K. S. 1522, 4523, 5358, 8563, 8711, 11862  
Liaw, G. J. 343-344  
Liban, H. 10303  
Liberat, F. 981  
Libert, M. 11293  
Licastro, K. A. 5585  
Lichtenberg, E. 418  
Lichtenstein, A. A. H. 5817  
Lichti, G. 1316  
Lichty, J. E. 9126  
Liddell, J. E. 9390  
Lidster, B. D. 4058  
Liebherr, J. K. 32, 5084  
Liebhold, A. M. 403, 2656, 10491, 11974  
Liebrich, W. 10164  
Liedi, E. 10481  
Liedo, P. 7158  
Lienhard, C. 10028  
Lienig, K. 992, 6326  
Liepert, C. 7152  
Liepold, B. 11193  
Liesack, W. 3283  
Lieutier, F. 2695, 7899  
Liewehr, D. 2479  
Liggett, K. 9248  
Light, D. M. 9703, 9957  
Light, N. 2264  
Lightner, G. 651  
Lighton, J. R. B. 3184, 7110, 10152  
Liimatainen, J. O. 11304  
Lijzen, J. 7614  
Liljefors, T. 11694  
Liljeström, G. 3084  
Lill, D. van 2414  
Lim, K. H. 10080  
Lim, P. Y. 4806  
Lim, S. O. 2522  
Lima, I. S. de 7207  
Lima, J. L. S. de 2507  
Lima, J. O. G. 1329, 8515  
Lima, M. F. C. 1578  
Lima, S. L. 3558  
Limb, T. M. 7245  
Lin, A. 9933  
Lin, C. C. 7859  
Lin, C. J. 3354  
Lin, C. S. 7668  
Lin, F. C. 298  
Lin, F. J. 38, 6987, 8164  
Lin, H. 8594  
Lin, H. F. 79  
Lin, J. B. 8662  
Lin, J. H. 2810  
Lin, J. S. 3308  
Lin, K. H. 617  
Lin, L. L. 10274  
Lin, M. Y. 5648  
Lin, S. L. 669  
Lin, T. F. 2463  
Lin, X. M. 8662  
Lin, Y. D. 3467  
Lin, Y. H. 1898  
Lin, Y. M. 11132  
Lin, Y. Z. 8109  
Linares, B. 7876, 8796  
Linares, E. 6400  
Linbo-Terhaar, B. 4105  
Lincoln, D. E. 12012  
Lind, R. J. 793  
Linde, T. C. de K. van der 4632-4633, 6714, 7871, 8810  
Lindgren, J. E. 8428  
Linden, A. M. A. van der 10666  
Linderman, R. J. 5889  
Linders, J. B. H. J. 508, 10666  
Lindgren, B. 9398  
Lindgren, B. S. 6778  
Lindgren, D. T. 2491  
Lindgren, M. 721  
Lindhorst, R. 10796  
Lindow, S. E. 6274  
Lindquist, E. E. 8104  
Lindquist, O. H. 891  
Lindquist, R. K. 4524, 7996  
Lindqvist, L. 407, 10501, 11561  
Lindroth, R. L. 736, 3627, 7024, 9974, 10936, 11990  
Lindsey, A. S. 2263  
Lindskog, P. 11127  
Lindström, J. 2871  
Lindström-Dinnetz, I. 145  
Ling, Y. Y. 6253  
Lingappa, S. 2678, 4485, 4650-4652, 5599, 11815  
Lingren, P. D. 1096-1097, 8604, 8650, 9138, 9925-9926  
Linhares, A. X. 8116  
Linhart, J. 7011  
Linhart, Y. B. 4749, 7991, 12013  
Link, D. 1460, 6287, 7246, 10876  
Linkerhägner, M. 11630  
Linn, C. E., Jr. 4965-4967, 5376, 6815, 9172, 9221  
Linnavuori, R. 2026  
Lino, T. 7104  
Lins, F. 9193-9194  
Linscombe, S. D. 2465  
Linsenmair, K. E. 814  
Linskens, H. F. 8391  
Lints, F. A. 8115  
Liou, H. H. 5201  
Lipa, J. J. 315, 330, 2158, 2173, 4146, 7329  
Lipok, J. 1495  
Lippert, G. E. 4808  
Lippi, M. M. 752  
Lipski, N. 10234  
Liptay, A. 8732  
Liquido, N. J. 7507, 9904  
Liran, N. 4755  
Lis, J. I. 9243  
Lisle, A. T. 1527  
Lisowicz, F. 551, 3429, 3438, 8649  
Liston, A. D. 5795  
Lit, I. L., Jr. 4860, 11088  
Litsinger, J. A. 3456, 4443, 6409, 7713  
Littell, R. C. 9659  
Little, L. E. 9142  
Littleton, J. T. 8192  
Litucha, B. M. 661  
Litvinov, P. I. 6670  
Liu, A. P. 8673  
Liu, A. Y. 8819  
Liu, A. Z. 10690  
Liu, B. 5168, 10856  
Liu, B. D. 11993  
Liu, B. L. 559  
Liu, B. Q. 1173  
Liu, C. 6304  
Liu, C. H. 443  
Liu, C. L. 3097, 8497  
Liu, C. M. 569  
Liu, C. X. 9553  
Liu, C. Z. 9344  
Liu, D. L. 10422  
Liu, F. 11433  
Liu, G. G. 4330, 5311  
Liu, G. H. 7878  
Liu, G. J. 2446, 2450  
Liu, G. L. 9369  
Liu, G. S. 8659  
Liu, H. 1054, 5989  
Liu, H. M. 8449  
Liu, H. W. 7063  
Liu, J. C. 8194, 9485  
Liu, J. F. 11404  
Liu, J. L. 5618, 9962  
Liu, L. C. 7509  
Liu, L. R. 9899  
Liu, L. Z. 1055  
Liu, M. Y. 8137, 8139  
Liu, N. W. 4876  
Liu, P. 10893, 11963  
Liu, Q. 2304  
Liu, Q. R. 1964  
Liu, Q. X. 2149, 8179, 10914, 10918  
Liu, Q. Z. 361, 7933, 8761  
Liu, R. L. 9168  
Liu, R. Q. 1593  
Liu, S. J. 4207  
Liu, S. M. 10690  
Liu, S. S. 3516, 9315, 9803, 10273  
Liu, S. X. 3253  
Liu, S. Y. 9911  
Liu, S. Z. 6492, 11738  
Liu, T. D. 3538  
Liu, T. P. 9379  
Liu, T. S. 2224, 2226, 2392, 3538  
Liu, T. X. 2, 787, 2717, 3988, 6606, 11574, 11655  
Liu, T. Y. 4288, 8284, 9446  
Liu, W. 396, 441, 4977, 9585, 11590  
Liu, W. B. 10054  
Liu, W. Q. 1219  
Liu, X. 2949, 3094, 9342, 9848  
Liu, X. J. 7493  
Liu, X. L. 2149, 10893  
Liu, X. Q. 3557, 6394, 9661  
Liu, X. R. 1593  
Liu, Y. 2179, 10357, 11993  
Liu, Y. B. 3824  
Liu, Y. C. 3308, 6598, 7667  
Liu, Y. F. 1173  
Liu, Y. H. 9349  
Liu, Y. J. 8317  
Liu, Y. P. 11037  
Liu, Y. Q. 5786, 8466, 10112, 11992  
Liu, Y. S. 5806, 8317  
Liu, Y. Z. 9451  
Liu, Z. C. 11404  
Liu, Z. J. 9689  
Liu, Z. Q. 5803  
Liu, Z. S. 589, 8594  
Liu, Z. X. 3071  
Liu Hong 5989  
Liuzzi, V. A. 11884  
Livingston, S. D. 2629  
Livingstone, D. 7235  
Llamas, M. Chifflet de 10590  
Llewellyn, B. 5744  
Llewellyn, N. 509  
Lloréns, J. M. 6685  
Llorens, T. 3962  
Lloret, P. 6650  
Llosa, J. F. 4885-4886  
Lloveras, J. 6504  
Lloyd, R. J. 9429  
Lo, C. F. 8426  
Lo, P. C. H. 2945  
Lo, P. L. 1568  
Loader, C. A. 4518  
Lobanov, A. L. 5255  
Lobaton, V. 9725  
Lobatón G., V. 3197  
Löbner, U. 7663, 9383  
Lobo, J. M. 6023  
Lobry de Bruyn, L. A. 2093  
Löchelt, S. 11506  
Löchte, C. 7736  
Locke, J. 152, 4986  
Locke, M. 101, 1879, 3864  
Lockhart, W. L. 6380  
Lockley, T. C. 4277, 5167  
Lockshin, R. A. 11185  
Lockwood, J. A. 5043, 5046, 5446, 5448  
Lode, O. 2379, 5366-5367, 10661  
Lodesani, M. 8509  
Loeb, M. 5899  
Loeb, M. J. 2895, 3845-3846, 8161, 8339  
Loebel, D. A. 1953-1954  
Loeck, A. E. 1188, 4077, 4216, 7801, 9378  
Loeffler, C. C. 12063  
Loera, J. 5992  
Loera-Gallardo, J. 550, 2436  
Loeschke, V. 1950, 3000, 4874, 6066, 8185  
Lofgren, C. S. 10264  
Löfqvist, J. 4480, 5920, 7202, 7949, 9537, 10188  
Löfstedt, C. 925, 4360, 9181, 9657, 11686  
Lofstedt, K. 520  
Logan, J. A. 5845, 9970  
Logan, J. W. M. 1232, 10387  
Logan, P. 4494, 10783  
Logeeswaran, G. 574



- Logiswaran, G. 6890  
 Loglio, G. 2108, 2117  
 Lognay, G. 11004  
 Logrieco, A. 2200  
 Lohar, M. K. 10771, 11926  
 Löhe, G. 125  
 Lohr, W. 115, 138, 11323  
 Loi, N. 10868  
 Loiacono, M. S. 6958  
 Lok, M. L. C. 7738  
 Lombardero, M. J. 8304  
 Lombardo, G. M. 1433  
 Lomer, C. J. 280, 7328, 7420, 7427, 8984, 10791  
 Lomic, P. V. 4724  
 Londhe, G. M. 11925, 11938  
 London, L. 8524, 8544, 10627  
 Londoño Z., M. E. 10441  
 Lone, A. H. 11468  
 Lone, M. A. 1407  
 Long, A. D. 1025, 9246, 9255, 10227  
 Long, J. P. 8795  
 Long, Q. X. 8430  
 Long, S. 625  
 Longbottom, J. E. 4067  
 Longino, J. T. 3936  
 Longiswaran, G. 6490  
 Longley, M. 7565  
 Longo, G. 931  
 Longo, S. 5639, 11899, 11903, 12023  
 Longstaff, B. C. 1332, 3143, 9016  
 Loof, A. de 3866, 5124, 7085  
 Loomis, C. 1194  
 Loomis, D. P. 9624  
 Loon, C. D. van 600  
 Loon, J. J. A. van 2923, 3417, 6582  
 Loosen, R. 8774  
 Lopes, A. 6303  
 Lopes, J. 7267  
 Lopes, J. R. S. 7684, 11728  
 Lopes, V. de 1504  
 López, A. N. 2894, 4484, 7750, 10782  
 Lopez, C. 1622  
 Lopez, F. 1465, 6150, 8443  
 Lopez, J. 5111  
 Lopez, J. D. 5992  
 Lopez, J. D., Jr. 1097, 8604, 8650  
 Lopez, L. Cruz- 8135  
 López, M. 10478  
 López, M. O. 1689  
 López, P. 292  
 López, R. 7753  
 Lopez, V. F. 372, 7688  
 López-Aparicio, P. 10619  
 Lopez-Arriaga, O. 3532  
 López-Avila, V. 2058, 10357  
 López-Fanjul, C. 3056  
 López-Fernández, C. 3092  
 López-Lastra, C. 369  
 López Lastra, C. C. 10437  
 Lopez-Lastra, C. C. 4159  
 López-León, M. D. 2983, 5959, 7134, 8159, 8186, 8233, 9134, 9258  
 López-Martín, J. M. 3368  
 López Mesa, M. O. 1689  
 Loreau, M. 10375  
 Lorena Passarelli, A. 5241  
 Lorenti, G. 10507  
 Lorenz, J. 8167  
 Lorenz, M. 7053  
 Lorenz, M. W. 5930  
 Lorenz, W. 11667  
 Loreti, F. 10844  
 Lorez, M. 9190  
 Losey, J. E. 11731  
 Lotfy, N. M. 11048  
 Lott, H. M. 8530  
 Lottspeich, F. 7021  
 Lotz, I. M. P. 2535  
 Lotz, L. A. P. 7771  
 Lou, Y. F. 2005  
 Loubry, D. 6771  
 Louda, S. M. 6858, 8975  
 Loughrin, J. 8293  
 Loughton, B. G. 5947  
 Louis, C. 3002, 3213, 4995, 5252, 5738, 6262  
 Louis, F. 2575, 11877  
 Loukas, Y. L. 3364  
 Lourduraj, A. C. 688, 3583  
 Lourenção, A. L. 3524  
 Louvet, J. M. 1558  
 Lövei, G. L. 9445  
 Lovejoy, S. B. 1275  
 Loveless, S. E. 8534  
 Lövgren, L. 8880  
 Lovicu, G. 10878  
 Low, R. 4490-4491  
 Low, W. 1258  
 Lowe, A. 8344  
 Lowe, W. J. 6782  
 Lowen, G. T. 261  
 Lowerisen, K. 10144  
 Lowery, B. 10363  
 Lowery, D. T. 514  
 Lowles, A. 7311  
 Loxdale, H. D. 5652  
 Lozano, C. 1602, 2078, 2596, 4626  
 Lozovskaya, E. R. 1022  
 Lozzia, G. C. 6879  
 Lu, B. 10871  
 Lu, C. C. 6788  
 Lu, C. D. 359  
 Lu, C. S. 10623  
 Lu, H. 2886, 3276, 11143  
 Lu, J. S. 8106  
 Lu, L. H. 9501  
 Lu, M. C. 11573  
 Lu, N. 8089  
 Lu, P. J. 393  
 Lu, R. Y. 7887  
 Lu, S. C. 8466  
 Lu, S. Q. 393, 10669  
 Lu, S. T. 2622  
 Lu, W. 4494, 7106, 10783  
 Lu, W. H. 2155  
 Lu, W. M. 8823  
 Lu, Y. C. 10290  
 Lu, Y. F. 4150  
 Lu, Y.-J. 162  
 Lu, Y. J. 1046  
 Lu, Y. T. 3466  
 Lu, Z. X. 6492, 9954  
 Lubatti, P. 7366, 7650  
 Lubello, C. 3155  
 Lübke-Al Hussein, M. 1224, 6425, 7658  
 Lucas, A. 9871  
 Lucas, A. D. 9636  
 Lucas, P. 10678  
 Lucchi, A. 3796  
 Lucia, T. M. C. della 3784, 4358, 5053, 7677, 8735  
 Luciañez, M. J. 8062  
 Luciano, P. 5645  
 Lucijanić-Justić, V. 2956  
 Luck, R. F. 665, 3958, 6184, 7628, 8788, 11435  
 Luckas, B. 5346  
 Luckmann, W. H. 6935  
 Luckow, V. A. 8038, 11496  
 Łuczak, I. 1500, 5486  
 Lüdders, P. 1577  
 Ludwicki, J. K. 8522  
 Ludwig, H. 10358  
 Ludwig, J. P. 1346, 3355-3356  
 Ludwig, M. 3355  
 Ludwig, M. E. 1346  
 Lueloff, S. M. 10713  
 Lueschen, W. E. 2316  
 Luff, M. L. 2837, 3115, 5074  
 Luhanga, W. W. 6688  
 Luik, A. 10695  
 Luis, J. H. 2124, 10271  
 Luisier, N. 7438  
 Łukasiewicz, J. 536  
 Lukefahr, M. J. 6741  
 Lukowiak, K. 355  
 Lum, K. 7613  
 Lum, K. R. 4333  
 Lumme, J. 7182  
 Lumpkin, T. A. 3726  
 Lumsden, L. 249  
 Lumsden, R. D. 8032  
 Lumsden, S. E. 1033  
 Luna, I. G. 7817  
 Luna, J. M. 3437  
 Luna-Alves Lima, E. A. 3263  
 Luna-Olvera, H. A. 4166  
 Lunau, K. 124  
 Lund, B. O. 3373, 4310  
 Lundberg, K. G. 10301  
 Lundberg, S. 10327  
 Lunderstädt, J. 781, 1672, 8876  
 Lundqvist, L. 8057  
 Lunke, M. D. 11162  
 Luo, J. C. 7229  
 Luo, J. T. 11575  
 Luo, K. 11588  
 Luo, L. W. 2201  
 Luo, L. Z. 10728  
 Luo, R. W. 9677  
 Luo, T. Q. 3172  
 Luo, X. W. 3655  
 Luo, X. X. 8432  
 Luo, Y. 686, 9463  
 Luong Minh Chau 9752  
 Lusby, W. R. 975, 1399, 8487, 9139  
 Lustosa, P. R. 2488  
 Luthria, D. L. 6405  
 Lüthy, P. 7401  
 Luttrell, R. G. 5603-5604, 7298-7299  
 Lux, S. A. 5273  
 Luykx, P. 1231  
 L'vovskii, A. L. 2555  
 Lwande, W. 5273  
 Lyal, C. H. C. 8052  
 Lyckegaard, E. M. S. 1026  
 Lykourissis, D. P. 6730, 8826  
 Lym, R. G. 2753  
 Lyman, R. F. 5971, 10227  
 Lynch, A. M. 8896  
 Lynch, D. M. 7911  
 Lynch, M. R. 2241  
 Lynch, R. E. 1606  
 Lynn, D. E. 5220, 6518, 8338  
 Lyon, S. M. 12018  
 Lyons, D. B. 394, 4730  
 Lyoussoufi, A. 4564-4565  
 Lyra, J. R. M. 6395  
 Lys, J. A. 2942, 4399, 5160, 9678  
 Lysyk, T. J. 8680  
 Lythgo, C. M. 6294  
 Lyubomirskaya, N. V. 8206  
 Lyytikäinen, P. 2698, 6785  
 Ma, B. Beltrão, N. E. de 9950  
 Ma, C. H. 10422  
 Ma, C. Z. 10799  
 Ma, E. B. 19, 9228  
 Ma, E. P. 1830  
 Ma, H. 11963  
 Ma, J. F. 2446  
 Ma, M. C. 109, 177, 3866  
 Ma, P. S. 277  
 Ma, P. W. K. 2868, 2960, 7065, 9128, 10168  
 Ma, Q. 3516  
 Ma, R. Z. 3231  
 Ma, S. H. 9961  
 Ma, T. 7557  
 Ma, W. C. 477  
 Ma, W. L. 9949  
 Ma, W. R. 8261  
 Ma, X. L. 6339, 10799  
 Ma, X. X. 8659  
 Ma, Y. F. 10889  
 Ma, Z. F. 10753  
 Ma, Z. Q. 3494  
 Maagd, R. A. de 5234  
 Maandblad - Suiker Unie 697  
 Maas, J. L. 870  
 Maat, A. ter 6218  
 Maatman, R. G. H. J. 11199  
 Maayuf, M. M. 3274  
 Mabbayad, M. O. 3457  
 Mabbett, T. 2063  
 Mabelis, A. 2644  
 Mabit, T. 10699  
 Mabuchi, M. 5657  
 Máca, J. 6987  
 McAdam, D. P. 11678  
 McAneney, M. P. 10941  
 McArdle, H. F. 11209  
 Macaulay, E. D. M. 1506  
 McAuslane, H. J. 404, 4631, 10901  
 McBee, K. 3357  
 McBride, K. E. 7500  
 McBrien, H. L. 4062, 6634  
 McC. Callan, E. 7215  
 McCabe, T. L. 6199  
 McCaffery, A. R. 8506, 11966  
 McCaffery, J. P. 1074, 3693, 9742, 11026, 11922  
 McCall, P. J. 7893  
 McCammon, S. A. 4152  
 McCarthy, B. C. 3080  
 McCarthy, L. S. 2303  
 McCarthy, W. J. 3269  
 McCarty, J. C., Jr. 2641  
 McCarty, L. S. 2301  
 McCarty, S. M. 7580  
 McCaslin, M. H. 863  
 McCauley, D. E. 3059, 11275  
 McCauley, E. 1206  
 McClain, W. R. 5642  
 McClary, D. C. 3726  
 McClatchie, G. V. 5225  
 McCleery, R. H. 11980  
 McClelland, M. 9497  
 McCloskey, C. 7772  
 McCloud, E. S. 6621  
 McClure, M. S. 9266  
 McCollum, T. G. 9888  
 McCombs, S. D. 1934  
 McConnell, J. L. 6782  
 McConnell, L. L. 4322  
 McConnell, R. 7592, 8532, 10571, 10601  
 McCorle, M. D. 5070  
 McCormack, W. 11706  
 McCormack, J. L. 3826  
 McCormick, K. D. 2916, 10166  
 McCormick, M. J. 4334, 10633  
 McCown, B. H. 4701  
 McCoy, C. W. 7850  
 McCoy, E. D. 1199, 4033, 4211, 10323-10324  
 McCoy, T. J. 6523  
 McCracken, A. 1939  
 McCracken, D. I. 5453  
 McCracken, D. V. 8651  
 McCreight, J. D. 6622  
 McCrohan, C. R. 2150, 5200  
 McCubbin, P. 8480  
 McCue, J. J. 7835  
 McCulloch, L. 3151  
 McCullough, D. G. 1688, 9991  
 McCutchen, B. F. 7457, 8346, 9441  
 McDaniel, R. 8285  
 McDermaid, H. E. 152  
 McDonald, D. 10067  
 McDonald, D. G. 9842  
 McDonald, D. M. 10428  
 McDonald, D. P. 4815  
 MacDonald, D. W. 7243  
 McDonald, G. 6455, 11704, 11757  
 Macdonald, J. A. 796  
 Macdonald, O. 4220  
 MacDonald, O. C. 438  
 McDonald, P. T. 4251, 11602  
 McDonald, R. C. 2218  
 McDonald, R. E. 1775, 2768, 9888  
 Macdonald, S. M. 5324  
 MacDonald, S. M. 8546  
 McDonough, L. M. 7061, 11858  
 MacDougall, A. D. 9280  
 MacDougall, J. 10531  
 MacDougall, K. W. 10637  
 McDowell, J. 4086  
 McDowell, L. L. 9953  
 Macedo, N. 1610  
 Maček, J. 5083  
 Macek, J. 6991, 10099  
 Macek, T. 5371  
 McElfresh, S. 8677  
 McElhany, P. 6264  
 Maceljski, M. 3509  
 McEvoy, P. B. 1756, 3691  
 McEwen, L. C. 9608



- McEwen, P. K. 3145, 4627  
McFadden, M. W. 5023  
McFadyen, R. E. C. 3695  
McFarlane, J. A. 843  
McFarlane, J. W. 394  
MacFarlane, R. 4137  
MacFarlane, R. P. 7995  
McFayden, R. E. 3288  
McGarvey, B. D. 4560  
McGaughey, W. H. 4206, 6871  
McGavin, G. C. 144  
McGhie, T. K. 5879  
McGill, N. G. 5585, 7877  
McGinley, M. A. 4699  
McGlynn, E. 5236  
McGovern, R. J. 3282, 11024  
McGovern, T. P. 4365, 7507, 7632  
McGrath, D. 9644  
McGrath, P. F. 7473  
McGregor, P. G. 4078, 6020  
McGuire, M. R. 4424, 10707  
McGuire, T. R. 377  
Mach, V. 11269  
Macháčkova, I. 11560  
Machado, A. 982  
Machado, C. A. 1710  
Machado, M. P. 9427  
Machado, S. S. 7450  
Machado, V. L. L. 3031, 4754, 8358  
Machera, K. G. 3364  
Machida, R. 5790  
Machin, P. J. 5622, 10932  
Macht-Hausmann, M. 7575  
McHugh, D. 1773  
McHugh, J. J., Jr. 9801  
McHugh, J. V. 35, 1065, 10088, 11294  
Macias, W. 1513  
Maciel-Rosas, A. M. 2198  
McInnis, D. O. 169, 2887  
McInnis, M. L. 11025  
Macinski, S. 2625  
McIntosh, A. H. 8423, 8508  
McIntosh, M. S. 753  
MacIntosh, S. C. 4058  
McIntyre, D. G. 6303  
McIver, J. D. 1194, 7200  
McIvor, C. A. 9460  
Mack, T. P. 8741, 9515  
Mackauer, M. 184, 585, 7351, 8266, 9031, 9436, 9852  
MacKay, D. 2301, 2303  
MacKay, P. A. 174  
McKay, R. R. 9226  
Mackay, T. F. C. 5971-5972, 9246-9247, 10227  
MacKay, W. P. 37, 1191, 1990  
McKearin, D. M. 4998  
McKechnie, S. W. 2999, 8134  
McKee, B. D. 1033  
McKenna, C. 675  
McKenna, K. A. 373, 4198  
Mackenzie, A. 5078  
McKenzie, C. 10521  
McKenzie, C. L. 2401  
Mackenzie, G. A. 12003  
McKenzie, J. A. 2999, 6282, 7526  
Mackenzie, J. R. 1496  
McKenzie, R. E. 11182  
Mackenzie, S. 9683  
McKenzie, S. W. 499  
McKenzie Purrington, T. 12019  
McKenzie-Smith, F. 2382  
McKey, D. 294, 9106  
McKillip, J. L. 10201  
McKillop, W. B. 2034  
McKinlay, R. G. 4512  
McKinney, R. 3372  
MacKinnon, E. A. 6255  
McKinnon, M. B. 450  
McKinnon, M. L. 7958  
Mackintosh, J. A. 7066  
McLane, W. 4210  
McLane, W. H. 2652, 10941  
McLaren, D. A. 1982  
MacLaughlin, L. E. 9987  
McLaughlin, J. L. 5280  
McLaughlin, J. R. 4667, 6575  
McLaughlin, R. A. 497  
McLaughlin, S. 5002  
McLean, C. 2944  
MacLean, D. A. 8921  
McLean, I. F. G. 3652  
McLean, J. 11617  
McLean, J. A. 720  
McLean, N. 5105, 7672  
MacLean, S. F., Jr. 1674, 7921  
MacLennan, L. 5621  
McLennan, L. A. 5993, 11170  
McLennan, P. D. 1611, 9923  
Macleod, A. 7242, 9380  
McLeod, C. D. 7210  
McLeod, M. 5781  
McLeod, P. J. 8702  
McMahon, R. W. 7996  
McManus, M. L. 403, 1656, 9463, 10491  
McMillan, L. P. 4486  
McMillan, N. A. J. 10408  
McMurtry, J. A. 5815  
MacNab, A. A. 8731  
McNab, S. C. 8767  
McNally, M. E. 9410  
McNamara, J. M. 10241  
McNaughton, D. E. 5735  
McNaughton, K. G. 11554  
McNeil, J. N. 995, 6182  
McNeill, J. 6939  
McNeill, M. R. 333, 1462, 2217, 6021, 7364  
McNew, R. W. 2191  
Macom, T. 11407  
Macom, T. E. 11388  
McPhee, G. 9591  
McPherson, B. A. 2861, 6635, 7819, 8204, 11256  
McPherson, J. E. 930  
McPherson, R. 10757  
McPherson, R. M. 9750  
McQuate, G. T. 9904  
McQuillan, P. B. 2476  
McRobert, S. P. 11315  
McSweeney, K. 10363  
McVay, J. R. 4611, 9906  
Maczuga, S. 9571, 10941  
Madalageri, B. B. 11820  
Madan, Y. P. 331, 3593-3594, 4639  
Madden, J. L. 1737, 2663, 6833  
Madden, L. V. 10496  
Maddens, K. 1283  
Maddison, D. R. 6940  
Maddox, J. V. 6519, 11500  
Maddrell, S. H. P. 5901  
Maddy, K. T. 10571  
Madej, T. 10957  
Madel, G. 996, 1104, 1759  
Madeley, J. 572  
Madhavendra, S. S. 5831  
Madhavi, D. R. 4297  
Madhusudhan, V. V. 5104  
Madrid, F. 9018  
Madrigal, A. 8907  
Maeda, S. 4150, 4201, 5991, 7457  
Mackawa, H. 7135, 7372, 10215  
Maeki, K. 3901  
Maes, J. M. 2844-2845, 3109-3113, 8694, 10295, 10315-10319  
Maesawa, Y. 8325  
Maestro-Durán, R. 6311  
Maeta, Y. 7995  
Maetô, K. 7906  
Maeto, K. 3, 8919  
Mafra-Neto, A. 1107  
Magadum, S. B. 103, 656, 8561  
Magadum, V. B. 8561  
Magagnin, S. 9242  
Magalhães, B. P. 5213, 6261, 7450, 8332, 11505  
Magallanes-Estala, A. 11357  
Magallona, E. D. 1459  
Magan, N. 3264, 11508  
Magarey, P. A. 10869  
Magarey, R. D. 5556, 10869  
Magari, V. 4857  
Magasi, L. P. 8853  
Magen, D. 6627  
Maggert, K. 7141  
Maggs, K. A. R. 8307  
Magnani, C. 2315  
Magnani, G. 5089  
Magnotti, R. 8532  
Magnus, H. A. 6431  
Magnusson, C. 1686  
Magnusson, G. 11493  
Magor, J. I. 9047  
Magrath, R. 5571  
Magrini, E. A. 8814  
Magro, R. 3107, 7305  
Mah, K. 3900  
Mahabir Singh 618  
Mahadevan, N. R. 11935  
Mahadevan, S. 2330  
Mahadevappa, M. 2461  
Mahal, M. S. 4440  
Mahamat, H. 9179  
Mahani, K. W. 6488  
Mahanty, H. K. 2167  
Maher, H. 5  
Maheshwari, D. K. 9623  
Mahillon, J. 5210  
Mahler, V. 7264  
Mahmood, I. H. 1510  
Mahmood, M. I. 6208  
Mahmood, T. 6868  
Mahmoud, E. N. 6313  
Mahobe, J. 7004  
Mahoney, L. A. 5286  
Mahoud, N. I. 3361  
Mahowald, A. P. 960, 5962  
Mahr, D. L. 3544  
Mahrub, E. 5441  
Mai, V. 7702  
Maia, V. C. 3775  
Maibach, A. 1823, 4894  
Maibach, H. I. 3139  
Maida, R. 9199  
Maier, C. T. 2708, 4379, 9837  
Maier, E. A. 5112  
Mailoux, G. 7776, 8710  
Main, C. A. 279  
Maines, G. 11953  
Maines, L. W. 6747  
Maines, R. 11857  
Maini, H. 11593  
Maini, P. N. 2444-2445  
Maini, S. 2480, 5419, 9694  
Maisonneuve, J. C. 9821  
Maiti, B. 5558-5559  
Maiulini, C. 2538  
Maixner, M. 3547  
Majchrowicz, I. 4175  
Majchrzak, Y. 11345  
Majeed, Q. 7326  
Majer, J. D. 670, 701, 3082, 3085, 3636, 4678, 7370, 10473, 11464  
Majerus, M. 2876, 6081, 8256  
Majerus, M. E. 11423  
Majerus, M. E. N. 1873, 2197, 3205, 7358, 12092  
Majerus, P. W. 10353  
Majerus, T. M. O. 11423  
Majewski, T. 6234, 10442  
Majid, M. A. 6721  
Majumdar, S. K. 9558  
Majumder, C. 5889  
Majumder, N. D. 1259, 10443  
Majunke, C. 7909, 8905  
Majzlan, O. 3076, 7802  
Makanjuola, W. A. 1487, 11788  
Makela, M. E. 4433  
Mäkelä, R. 10969  
Makihara, H. 4372, 6801  
Makin, G. I. 1388  
Makin, T. L. 7996  
Makino, S. 9928  
Makkouk, K. M. 2419  
Mal, B. 4517  
Mala, S. R. 1614, 3596  
Malacrida, A. R. 3002, 6010  
Malakov, P. Y. 2735  
Malambo, C. 6567  
Malausa, J. C. 1518, 2008  
Malavasi, A. 11259  
Malaysia, Guthrie Research Chemara 856  
Malbouisson, J. F. C. 8111, 10603  
Malcolm, C. P. 5735  
Maldonado-Capriles, J. 6884  
Malek, M. A. 6344  
Malet, J. C. 9821  
Malhi, S. S. 7665  
Mali, Institut du Sahel 6918  
Mali, M. S. 1613, 1615  
Mali, Unité de Coordination Technique Régionale en Protection des Végétaux 8468, 9032, 10484-10488  
Malicky, H. 4812  
Maliga, P. 7500  
Malik, G. N. 11468  
Malik, M. Z. 1330, 6343  
Malik, S. S. 2443  
Malinconico, P. 10824, 11844  
Maliński, E. 4974  
Malipatil, M. B. 7, 3752, 9853, 11920  
Maliwal, G. L. 5409  
Mall, N. P. 8744  
Mallapur, C. P. 11815  
Mallé, K. 4434  
Mallet, J. 9318  
Mallet, J. L. B. 3135  
Mallet, V. N. 7609  
Mallik, F. 7795  
Mallikarjunappa, S. 1736  
Mallipudi, N. M. 3338  
Mallouch, A. J. C. 7722  
Malloch, G. 7827  
Malo, A. R. 5247  
Malo, E. A. 2583  
Malone, L. A. 9460  
Malosse, C. 4938, 7059, 8799, 9068, 10167, 10678  
Malphettes, C. B. von 2704  
Malumphy, C. 11901  
Malva, C. 9237  
Malvar, R. A. 9707  
Malvar, T. 5239-5240  
Mamdapur, V. R. 1396, 7317, 10338  
Mamet, J. R. 1413  
Manclús, J. J. 4284  
Mandal, A. 9817  
Mandal, A. K. 2825  
Mandal, P. K. 4303  
Mandal, S. M. A. 4660, 5584  
Mandelshtam, Yu. E. 11204  
Mandl, K. 1811  
Mandon, N. 6899  
Mañes, J. 507, 5734, 11654  
Maness, N. 9827  
Manetti, P. L. 4484, 7750, 10782  
Mang, K. Q. 559  
Mangal Sain 7707  
Mangan, R. 6675  
Mangan, R. L. 8024, 11538  
Mangé, A. 7377  
Mangel, M. 1070, 1229, 4092, 4607  
Mangelsdorf, I. 7512  
Mangini, A. 6782  
Manheim, O. 5567  
Mani, A. 5199  
Mani, E. 1535  
Mani, M. 5340, 5555, 9903, 10141  
Maniania, N. K. 604, 2194, 4193  
Manicardi, G. C. 2984, 11259  
Maniere, G. M. 3157  
Manisegaran, S. 5435  
Manjula, A. 3040  
Manjula, A. C. 5189, 10159  
Manjunath, D. 297, 5730  
Manjunatha, H. B. 5847  
Manjunatha, M. 8381  
Mankowski, M. E. 3235  
Manley, G. V. 9695  
Manley, W. J. 7245  
Mann, J. E. 11969  
Manners, M. M. 7850  
Manneville, O. 11345



- Manning, K. 10172  
Manning, M. J. 10251  
Manninger, K. 4458  
Manninger, S. 4458  
Mannion, A. M. 2206  
Mannion, C. M. 4418  
Manoharan, T. 3611, 5609, 8501  
Manojlović, B. 819, 1757, 6460, 6464, 6466  
Mansell, M. W. 916, 2585, 8987  
Mansingh, A. 8958  
Mansour, F. 2335, 5562, 10371  
Mansour, F. A. 1526, 5566, 6305  
Mansour, M. 501  
Mansour, S. A. 3387  
Mansuri, A. P. 10582  
Mantinger, H. 7810  
Mantoura, R. F. C. 9643  
Mantovani, B. 5010  
Manukov, A. N. 2732  
Manville, J. F. 4741  
Manz, A. 10300  
Manzali, D. 11870  
Manzcak, M. 8219  
Manzella, S. 1294  
Manzi, A. 9237  
Manzo, L. 469  
Manzoli-Palma, M. F. 3990  
Manzoor-Ul-Haq 1528, 3006  
Mao, H. 309  
Mao, J. F. 11768  
Mao, L. Q. 6245  
Mao, Y. 482  
Mapangou-Divassa, S. 4497  
Mappes, J. 11985  
Marade, S. J. 4343  
Maragliano, R. E. 3425  
Marais, G. F. 7651  
Marana, S. R. 11180  
Marangoni, B. 639  
Marc, P. 1532  
Marcaillou, C. 4968  
Marcano, J. J. 8716  
Marcano, R. 2534, 4520-4522  
Marcano B., R. V. 1516  
Marcé, R. M. 7599  
March, G. 7648  
Marchal, M. 4158  
Marchal-Ségault, D. 1348  
Marchant, A. D. 1030  
Marchisio, C. 6796  
Marcillaud, C. 5293  
Marciniak, B. 1154  
Marcipar, A. J. 2165  
Marco, M. P. 3397, 3833  
Marco, S. di 10565  
Marco, V. 6995  
Marconi, E. 2776  
Marcos, J. M. 7276  
Marcos-García, M. A. 1842  
Mărculescu, M. 2572  
Marczylo, T. H. 11642  
Mardaus, M. C. 7101  
Marden, B. T. 6372  
Mardoukhi, V. 3624  
Marec, F. 3890  
Marechal, P. 326  
Maredia, K. 11548  
Maredia, K. M. 709, 5392  
Marei, S. S. 8362  
Marek, J. 234, 10820  
Marengo, R. M. 2624  
Marescalchi, O. 1017  
Margalith, Y. 8383  
Margolies, D. C. 3996, 6051, 9141, 10717  
Margolis, H. A. 8926  
Mari, J. M. 3201  
Mariani, B. D. 1050  
Mariani, R. 5844  
Mariau, D. 1598, 4623, 9916, 10895  
Marin, A. 2572  
Marín, F. 4674  
Marín, I. 1987  
Marín, I. 11279  
Marinho, V. L. A. 10892  
Marini, R. P. 6633  
Marino, C. 2169  
Marion, J. R. 3543  
Marion-Poll, F. 11019  
Maritz, M. 11918  
Măriuță, P. 2572  
Markham, P. G. 4207, 4209, 10880  
Markham, R. H. 6567  
Marking, L. L. 1343-1344  
Markó, V. 7803, 9323  
Markow, T. A. 1864, 6018, 7153  
Marks, S. 5455  
Markwick, N. P. 9160  
Marletto, F. 2300  
Marlier, M. 11004  
Marlow, S. A. 8442  
Marmaras, V. J. 3814, 4920, 4932  
Marocchi, G. 10027  
Marohasy, J. 3772, 8011  
Marois, J. 10684  
Marois, K. C. 11624  
Maron, J. L. 12052  
Marotta, S. 5449, 6031  
Marples, N. M. 4100, 9219-9220, 9418  
Marples, T. G. 460  
Marquardt, K. 828  
Marquardt, R. R. 9018  
Marquardt, S. 1385  
Marques, E. S. A. 4704  
Marques, R. S. A. 4704  
Marquez, C. B. 416  
Marquez, G. 10223  
Marquez, M. 5624  
Marquis, R. J. 8869  
Marrewijk, W. J. A. van 2083, 11199  
Marriott, P. J. 4334, 10633  
Marro, J. P. 8799  
Marrone, G. M. 7274  
Marrs, R. H. 11031  
Marsh, J. McG. 492  
Marsh, P. M. 5172, 11112  
Marshall, D. B. 4560  
Marshall, E. J. P. 10065  
Marshall, E. P. J. 7659  
Marshall, J. C. 9316  
Marshall, L. D. 4758  
Marshall, S. L. 6509  
Marshall, V. G. 6799  
Mart, C. 1580  
Martegani, M. M. 6210  
Martel, J. 6844  
Martel, P. 8436  
Martel, R. K. B. 7149  
Martens, S. N. 792, 4767  
Marti, A. 6351  
Martí, M. 6609  
Marti, O. G., Jr. 5848  
Marti-Mestres, G. N. 5747, 8990  
Martín, A. 547  
Martín, A. P. 11600  
Martín, D. 524, 11303  
Martín, E. C. 7119  
Martín, F. G. 2927, 9461  
Martín, G. 6642  
Martín, G. B. 3525, 9812  
Martín, J. 240, 292  
Martín, J. B. 6102  
Martín, J. R. 1040  
Martín, L. M. 547  
Martín, M. A. 4692, 5636  
Martín, M. J. Sánchez- 4337  
Martín, M. M. 1140, 4921, 4948, 10162  
Martín, M. P. 8879  
Martín, M. T. 806  
Martín, N. A. 6275, 6613  
Martín, P. A. 2328, 7605  
Martín, P. F. 10217  
Martín, S. 11666  
Martín, S. H. 9584  
Martín, S. J. 6159, 11426  
Martín, T. 8704  
Martín, T. H. 10762  
Martín, T. J. 1421, 9685  
Martín, W. R. 5482  
Martín-Alganza, A. 9258  
Martín-Piera, F. 1833  
Martínez, A. 8356  
Martínez, A. J. 4361, 9704  
Martínez, A. N. 3631, 3650  
Martínez, D. 4231  
Martínez, H. 10125  
Martínez, J. 1690, 8356  
Martínez, M. 1416  
Martínez, M. D. 11411  
Martínez, N. 9475  
Martínez, R. 8254  
Martínez, S. 322, 1918  
Martínez, T. 3859  
Martínez-Carrillo, J. L. 9958  
Martínez de Velasco, D. 6148  
Martínez-Peniche, R. 9865, 9877  
Martínez-Ramírez, A. C. 4172, 6248  
Martínez-Sebastián, M. J. 2977  
Martínez-Tabche, L. 8521  
Martínez-Toledo, M. V. 489, 503, 6374, 6382, 10598  
Martínez-Vado, A. 411  
Martínková, I. 9458  
Martins, A. 3279  
Martins, D. S. 8854  
Martins, U. R. 4648, 6959, 6965  
Martins, V. G. 5973, 5983  
Martius, C. 7371  
Marty, J. L. 10597  
Martynenko, I. I. 2561  
Martyniuk, P. S. 6420  
Marullo, R. 2852  
Marumoto, N. 11492  
Maruniak, J. E. 4177, 9485  
Marusik, Y. M. 4825  
Marvaldi, A. E. 5822, 6958, 11124  
Marvanek, S. 3378  
Marwat, N. K. 6489  
Marwood, T. M. 8523  
Maryńska-Nadachowska, A. 1928, 7126  
März, L. 8171  
Marzocchi, L. 2412  
Masaki, H. 7468  
Masaki, S. 1014  
Masano 2676  
Maschwitz, U. 814, 5135, 5630  
Masclat, P. 10660  
Mashkin, P. V. 4359  
Mashwani, M. A. 553, 1437  
Masilamani, S. 6213  
Masler, C. A. 11524  
Masler, E. P. 2922, 8205, 9139, 9391  
Maslov, G. G. 3163  
Mason, C. E. 10716  
Mason, C. F. 5324, 8546, 9283  
Mason, D. J. 509, 783  
Mason, J. M. 1023, 9234  
Mason, J. R. 3362  
Mason, P. G. 6144  
Mason, P. L. 8267  
Massawe, A. 1705  
Masse, J. 510  
Massey, J. H. 10667  
Massi, A. 2288  
Massie, B. 11533  
Massie, H. R. 999, 5865  
Massimini, S. 434, 4258  
Massiot, G. 10339  
Masson, L. 1268, 2196  
Massoné, G. 653  
Mastebroek, H. A. K. 112  
Mastrota, F. N. 11627  
Masucci, J. D. 154  
Masuda, T. 6246, 6607  
Masui, S. 11891  
Masum Ahmad 8462  
Masumoto, K. 5785, 8074, 10108  
Masumoto, M. 654  
Masumoto, T. 3028  
Masurier, A. D. le 313, 4509  
Mata, R. 6400, 9858  
Matalin, A. V. 1075  
Matamala, R. 5508  
Matano, O. 5685  
Matches, A. G. 863  
Matengo, L. O. 11799  
Materlik, B. 1841  
Materna, E. J. 11626  
Matewale, P. 4154  
Matha, V. 4157, 5211  
Mathavan, S. 1265, 4762, 5199  
Mathé, A. 3718  
Mathelin, J. 11271  
Mathes, K. D. 1053  
Matheson, T. 10180  
Mathew, G. 1588, 2672, 8251  
Mathew, K. L. 4029  
Mathewes, S. 11479  
Mathews, F. S. 10353  
Mathews, M. S. 4315  
Mathis, D. 9967  
Mathur, N. 2202  
Mathur, R. P. 8565  
Mathur, S. 852, 1066  
Mathur, S. K. 2147  
Mathur, V. B. 9325, 10395  
Mathur, Y. K. 7458  
Matile-Ferrero, D. 4463, 6671  
Matin, M. A. 6344  
Matinez, M. 251  
Matioli, A. L. 4530  
Matioli, S. R. 2912  
Matoba, Y. 4304, 5262  
Matok, M. 3813  
Matos, M. 3805  
Matoub, M. 91  
Matrangolo, W. J. R. 7646  
Matsubara, F. 1935, 6212, 7039, 10221  
Matsubayashi, H. 11338  
Matsuda, H. 4026  
Matsuda, I. 4151  
Matsuda, K. 3161, 7522  
Matsuda, M. 2386  
Matsuda, S. 4120  
Matsui, M. 10354, 10562, 10817, 10835  
Matsui, T. 611, 7033  
Matsuki, H. 5740  
Matsuki, M. 1674, 7921  
Matsumoto, H. 4811  
Matsumoto, K. 974, 2972, 9061  
Matsumoto, S. 3850, 5195, 5224, 9507  
Matsumoto, T. 1233, 4201, 10405, 11513  
Matsumura, F. 9239  
Matsumura, I. 2869  
Matsuo, J. 7034  
Matsuo, M. 4304, 5262, 6353  
Matsuo, N. 5289  
Matsura, T. 6060  
Matsura, Y. 4054-4055  
Matsushita, K. 9575  
Matsushita, Y. 2304  
Matsuura, Y. 5951  
Matsuyama, S. 98, 974, 4811, 4934  
Matsuzawa, Y. 11697  
Matt, J. 5750  
Matta, J. 3458  
Matta, J. E. 3474  
Matthews, D. L. 1804  
Matthews, G. A. 5119  
Matthews, G. A., Jr. 5415  
Matthews, M. 6972  
Matthies, M. 4314  
Matthiessen, J. N. 9779  
Matthiessen, P. 9634  
Matthysen, E. 4696  
Mattiacci, L. 5490, 10266, 11321, 11810  
Mattice, J. D. 5756  
Mattioda, H. 7655  
Mattson, W. J. 8879  
Matulonis, P. 7125  
Matuo, T. 4594  
Mau, R. F. L. 6263  
Mauchamp, B. 6120  
Maudsley, J. R. 7146  
Mauffette, Y. 4726  
Maurano, F. 5368  
Mauremootoo, J. R. 6452, 7673  
Mauri, A. R. 1377  
Mauri, G. 9863  
Maurice, C. 9855



- Maurichi, S. 10878  
 Maurya, R. P. 3572  
 Mavragani-Tsipidou, P. 5957  
 Mawdsley, J. R. 2855  
 Maxia, L. 1511  
 Maxwell, D. P. 6602-6603  
 Maxwell, P. W. 11509  
 May, B. 4817  
 May, C. A. 4993  
 May, G. 6551  
 May, M. J. 5410  
 May, R. M. 5055  
 Mayer, D. 3663  
 Mayer, D. F. 8759  
 Mayer, F. L. 90, 1344  
 Mayer, F. L., Jr. 1343  
 Mayer, N. J. 11198  
 Mayer, R. J. 11198  
 Mayer, R. T. 9888  
 Mayfield, W. D. 8048  
 Mayhé-Nunes, A. J. 2882-2883  
 Mayo-Aceves, E. 1984  
 Mayorga, C. 1847, 11010  
 Mayr, L. 4559  
 Mayrose, S. 195  
 Mayuravalli, V. V. L. 10037-10038  
 Mazanec, Z. 5640  
 Mazet, I. 375-376, 9480  
 Mazina, O. M. 11274  
 Mazzarin, R. M. 1471, 2488  
 Mazzei, F. 10507  
 Mazzeo, G. 11899, 11903, 12023  
 Mazzoglio, P. J. 9666  
 Mazzoni, E. 9874  
 Mazzuccato, S. 6879  
 Mbagwu, I. G. 10659  
 Mbata, G. N. 970, 4803, 5837, 9004, 9019, 12072  
 Me, G. 2809  
 Mead, F. 8242  
 Mead, F. W. 5561  
 Meade, T. 11582  
 Meagher, L. 4917  
 Meagher, R. L., Jr. 693, 6719  
 Meazza, G. 434  
 Meda, D. 3605  
 Medda, A. K. 8476  
 Medda, P. K. 15  
 Medeiros, M. A. de 10910  
 Medel, R. G. 1196, 9105  
 Medford, J. 7966-7967, 10011  
 Medialdea, V. 1448  
 Medina, B. 7579  
 Medina, C. A. 5457  
 Medina, C. L. 6687  
 Medina, E. 180  
 Medina, J. R. 12043  
 Medina, M. P. 6644  
 Medina, P. S. 10279  
 Medina E. D. J. 8716  
 Medina Filho, H. P. 3524  
 Medina-Gaud, S. 10326  
 Medina S., V. 4466  
 Mediratta, P. K. 1729  
 Medler, J. T. 49, 4845  
 Medori, P. 2820  
 Medvedev, G. S. 1803  
 Mee, L. D. 3389  
 Meeker, J. R. 11982  
 Meeker, R. B. 8518  
 Meena Singh 4926  
 Meenal, A. 9325  
 Meer, R. K. vander 10264, 11412  
 Meera, V. 103  
 Mégevand, B. 2511, 2513  
 Megginson, C. 10521  
 Meggs, W. J. 10571  
 Megharaj, M. 4297  
 Mehendale, H. M. 7580  
 Mehler, L. N. 1357  
 Mehmejad, M. R. 3571  
 Mehrotra, K. N. 5464  
 Mehrotra, M. D. 6765  
 Mehrotra, O. N. 849  
 Mehta, A. 9813  
 Mehta, D. M. 1327  
 Mehta, P. 6602-6603  
 Mehta, P. K. 638, 8684, 9761, 9816  
 Mehta, U. 2774, 9014  
 Meier, C. 5004, 11354  
 Meier, C. M. 8607  
 Meier, R. 10121  
 Meighen, E. A. 7445  
 Meinwald, J. 1889, 2916, 3826, 9180, 10166  
 Meiracker, R. A. F. van den 6180  
 Meirelles, L. D. Paccola- 8414  
 Meisinger, J. J. 2362  
 Meister, M. 7142  
 Meister, R. T. 894  
 Meiwald, M. 8756  
 Mejías Chacón, A. 6447-6448  
 Melckebeke, J. van 616  
 Melde, C. 6438  
 Melendres, J. 3139  
 Melgar, M. J. 11662  
 Melifronides, I. D. 1315  
 Melis, M. 5578  
 Mellerio, G. 1401  
 Mellini, E. 11401  
 Mellink, E. 11648  
 Mellor, H. E. 5832  
 Melluso, G. 5368  
 Melo, E. L. 4833, 5478  
 Melo, G. A. R. de 10  
 Memmott, J. 4677, 8933  
 Men, U. B. 2437  
 Menakis, J. P. 762  
 Menassieu, P. 2699, 5673, 8904  
 Mench, J. A. 11627  
 Mendel, Z. 1723, 2697, 8394, 8454, 9988, 11607, 11695, 12009  
 Mendelson, Z. 6739  
 Mendes, C. 7717  
 Mendes, J. 8116  
 Mendes, L. F. 5790  
 Mendoza, L. G. de 1949  
 Mendoza, O. 10819  
 Mendoza M., R. 9918  
 Menéndez, J. M. 1336, 1402, 1652, 1690  
 Meneses Carbonell, R. 4442  
 Menezes, E. B. 1710  
 Meng, F. J. 9628  
 Meng, L. Z. 10187  
 Meng, X. Q. 412  
 Meng, X. Z. 5272  
 Menke, A. S. 9071  
 Menne, T. 7140  
 Menon, A. R. S. 1782  
 Menotti-Raymond, M. 11261  
 Mensah, R. K. 1737, 2663, 6833  
 Mentzos, G. 6730  
 Mentzos, G. V. 8826  
 Menu, F. 1585  
 Menzikova, O. V. 90  
 Merca, F. E. 4135  
 Mercado, C. 8849  
 Mercaldo-Allen, R. 2336  
 Mercer, A. R. 5910  
 Mercer, C. W. L. 8882  
 Mercer, R. W. 2168  
 Merchant, M. E. 4431  
 Mercheremk, N. Bensaadi- 8198  
 Mergot, H. 7036, 8200  
 Meredith, W. R., Jr. 9960  
 Merickel, F. W. 2045  
 Mericli, A. H. 8611  
 Meriggi, P. 11953  
 Merino, M. J. 10619  
 Merkl, O. 3125, 8322  
 Merkle, O. G. 9687  
 Merkusshina, A. S. 9669  
 Merrett, P. 5  
 Merrien, A. 9913  
 Merrill, V. K. L. 11252  
 Merritt, M. 8172  
 Merryweather, A. 2232, 5269, 9945  
 Merryweather-Clarke, A. T. 8439  
 Mertl, H. G. 5974  
 Merton, E. 11704, 11757  
 Mertz, D. B. 10242  
 Merz, B. 3730  
 Merz, F. 3729  
 Merzlikin, A. S. 415  
 Mesa, N. C. 2512, 4833, 5478  
 Mescheloff, E. 5398  
 Meseguer, A. 6664  
 Mesén, S. 422  
 Meshram, L. D. 2623  
 Meshram, P. B. 724  
 Mesnier-Sabin, M. 11230  
 Messeguer, A. 7520  
 Messersmith, C. G. 11036  
 Messias, C. L. 4178  
 Messier, S. 11462  
 Messina, F. J. 3969  
 Messing, R. H. 3226, 4109, 7521, 8366, 9434  
 Mestres, F. 3879, 8223  
 Mestres, G. 2253  
 Mestres, J. M. 5747  
 Mestres, J. P. M. 8990  
 Mestres, R. 2253  
 Mészáros, M. 11253  
 Metcalf, R. L. 2237, 6935  
 Metge, K. 6369  
 Metspalu, L. 2902  
 Metz, J. A. J. 9299  
 Metz, T. 9521  
 Metzler, C. F. 8264  
 Meulen, T. van der 4545  
 Meunier, J. 9941  
 Meusnier, S. 4060  
 Meyer, E. 4452  
 Meyer, H. 1694, 9174, 9981  
 Meyer, J. 8157, 9195  
 Meyer, M. de 1808, 10303  
 Meyer, R. 10853  
 Meyer, W. L. 515  
 Meyer-Peters, H. 1881  
 Meyer zu Brickwedde, W. 7642  
 Meyerdirck, D. E. 4664  
 Meyers, S. M. 2329  
 Meyhöfer, R. 7209  
 Meyhöfer, R. 271  
 Meylan, G. 2214  
 Meynard, J. M. 9758  
 Mezou, N. 9362  
 Mheen, H. J. van der 8964  
 Mi, J. J. 559, 9944  
 Mi, Y. D. 1942  
 Miadokowá, E. 5349  
 Miah, K. 5744  
 Miah, M. R. U. 3707, 5177  
 Miana, P. 10624  
 Miao, C. L. 3239  
 Micha, S. G. 1403  
 Michael, P. 11754, 11756  
 Michael, P. J. 11758  
 Michailides, T. J. 6698  
 Michalakakis, Y. 12053  
 Michalopoulos, G. K. 10424  
 Michaud, J. P. 7343, 7351, 9436  
 Michaut, L. 8117  
 Michel, R. 1745  
 Michelakis, S. 4544, 5553  
 Michelatti, G. 4613  
 Michels, G. J. 4004  
 Michels, G. J., Jr. 1218, 4400, 4432, 8633  
 Michot, T. C. 2327  
 Micinski, S. 8840, 9584  
 Middaugh, D. P. 5107, 9599  
 Midgley, J. J. 12055  
 Midgaard, F. 1071  
 Miduturi, J. S. 7973, 10470  
 Mieczkowski, J. 6347  
 Mier, T. 8433  
 Mierzejewski, K. 387, 9571  
 Miętkiewski, R. 1279, 8420  
 Mifflin, B. 10477  
 Mihm, J. A. 3444, 8652  
 Miiyata, M. 9727  
 Mikami, N. 6353  
 Mikeš, C. 4279  
 Mikhailov, K. G. 10294  
 Mikhailova, A. L. 11517  
 Mikkelsen, F. F. 1244  
 Mikkola, K. 6, 5456  
 Mikotajczyk, P. 4352, 7055  
 Mikoshiba, K. 4983  
 Mikul'skaya, N. I. 11794  
 Milani, M. T. 5232  
 Milani, N. 3798  
 Milankov, V. 11383  
 Milanović, D. 8237  
 Milanović, M. 2961  
 Milbrath, L. R. 2136  
 Milde, J. J. 9171  
 Milder, R. 7390  
 Mile, L. 6459  
 Milenković, S. 11869  
 Miles, C. 2414  
 Miles, C. I. 106  
 Miles, D. H. 1404, 6401  
 Miles, K. R. 6303  
 Miles, P. W. 5104, 7040, 9301  
 Miliadis, G. E. 1522, 4069, 4523, 5358, 8563, 8711, 11661, 11862  
 Millar, I. M. 2828  
 Millar, J. G. 4604, 6753, 6814, 7628, 7790, 7891, 9972  
 Miller, A. 1684, 4722  
 Miller, C. 3616, 9149  
 Miller, D. P. 8442  
 Miller, D. R. 9463, 10941  
 Miller, D. S. 8537  
 Miller, E. 8344  
 Miller, F. 9976  
 Miller, G. E. 7934  
 Miller, G. T. 6872-6873  
 Miller, H. G. 6794  
 Miller, H. L. 9688  
 Miller, J. C. 4010, 4673  
 Miller, J. D. 8514  
 Miller, J. E. 5394  
 Miller, J. R. 9641  
 Miller, J. S. 4896, 5869, 6941, 9513  
 Miller, J. Y. 3918  
 Miller, L. K. 1267, 5005, 5227, 5241, 8038, 8408, 9391, 9491, 9509  
 Miller, L. R. 6206-6207  
 Miller, M. 1371-1372  
 Miller, M. A. 4307, 7616, 11637  
 Miller, M. C. 9985  
 Miller, M. F. 1677  
 Miller, P. S. 10230  
 Miller, R. H. 3426, 4037, 8368, 11714, 11726  
 Miller, R. L. 5531  
 Miller, R. R., Jr. 1911  
 Miller, R. S. 6185  
 Miller, R. W. 10537  
 Miller, S. E. 3747, 6806, 9056, 9356, 10124  
 Miller, S. G. 5892, 10429, 11225  
 Miller, S. S. 8015  
 Miller, S. T. 337-338  
 Miller, T. 5279  
 Miller, T. A. 4671  
 Miller, T. D. 8368  
 Miller, W. E. 8879  
 Miller, W. R. 1775, 2768  
 Miller-Ihli, N. J. 11795  
 Millidge, A. F. 10096  
 Milliken, G. A. 10749  
 Millot, P. 1518, 8378, 10823  
 Mills, A. 11534  
 Mills, G., Jr. 10537  
 Mills, J. T. 9006  
 Mills, K. A. 5744  
 Mills, N. J. 757, 3916, 4558, 6914, 11851  
 Millstein, J. A. 6129  
 Milne, G. R. 754  
 Milne, K. 11285  
 Milne, R. 4197  
 Milne, W. M. 8639  
 Milner, R. J. 1611, 3257, 5585, 9527  
 Milojević, D. 1425  
 Milstein, S. 1007  
 Milton, S. J. 7262, 8685  
 Mims, S. R. 9624  
 Minafra, A. 5539  
 Minaif, A. 517  
 Minakata, H. 7054  
 Minakshi Shrivastava 3249



- Minami, M. 4163, 4165, 6251  
 Minamida, I. 3340  
 Minatogawa, Y. 3359  
 Minchella, D. 8404  
 Mindt, G. 4679  
 Mineau, P. 4292, 4306  
 Mineiro, J. L. de C. 2528  
 Minelli, A. 892  
 Minet, J. 3785, 4842  
 Mink, G. I. 10451  
 Mink, J. S. 1474  
 Minke, B. 8153  
 Minkenbergh, O. P. J. M. 6732  
 Minks, A. K. 97, 2543, 9536  
 Minnen, J. van 135-136, 1240, 2152  
 Minno, M. C. 7223, 8939  
 Minns, J. C. 649  
 Minoba, Y. 1935  
 Minoru, H. T. 2535  
 Minowa, N. 11583  
 Mintzas, A. C. 2914  
 Mionetto, N. 10597  
 Mioskowski, C. 5884  
 Miralles, A. 3157  
 Miranpuri, G. S. 5218, 10897  
 Mirol, P. M. 2976  
 Misari, S. M. 2530  
 Misener, G. C. 4486, 6553  
 Mishiho, K. 67  
 Mishiho, L. 10423  
 Mishra, A. B. 9326  
 Mishra, B. K. 1310, 4660  
 Mishra, N. C. 2533, 9719, 10773  
 Mishra, P. K. 3005, 6830, 9557  
 Mishra, P. N. 3504, 4471  
 Mishra, R. 8559  
 Mishra, R. C. 677  
 Mishra, R. K. 1736  
 Mishra, S. 3204  
 Mishra, S. D. 9749  
 Mishra, S. N. 2533  
 Mishra, S. S. 594  
 Miskiewicz, A. G. 2296, 2348  
 Misra, B. C. 9719  
 Misra, D. S. 9718, 9723  
 Misra, G. 8481  
 Misra, H. P. 7874, 9796, 10827  
 Misra, K. 3249  
 Misra, M. K. 9736  
 Misra, M. P. 1484, 5583  
 Misra, R. M. 1676, 2673  
 Misra, S. S. 11792  
 Misra, V. 2349, 5323  
 Misslinger, B. 11017  
 Missonier, J. 1285  
 Mita, K. 5190  
 Mitcham, E. J. 1775  
 Mitchell, A. 11065-11066  
 Mitchell, B. K. 4490-4491, 5925-5926, 6397  
 Mitchell, C. A. 2327, 2353, 7588  
 Mitchell, D. S. 4237  
 Mitchell, E. R. 2428, 3889, 4667, 6575  
 Mitchell, G. C. 8542  
 Mitchell, M. J. 5209  
 Mithen, R. 5571  
 Mithyantha, M. S. 1736  
 Mitoui, A. 96  
 Mitro, S. 4913  
 Mitsuhashi, J. 308, 4075, 5179, 7462, 10143, 10340  
 Mitsuhashi, W. 2694, 7914  
 Mitsui, H. 6038  
 Mitsui, T. 3850, 5224, 9507, 9573  
 Mittal, V. P. 11449, 11927  
 Mitterpergher, L. 8937  
 Mitter, C. 6972  
 Miura, K. 4120, 7203  
 Miwa, M. 1051  
 Miyahara, M. 3148  
 Miyahara, Y. 7160  
 Miyai, S. 3285, 6289  
 Miyajima, N. 7135, 10215  
 Miyajima, S. 11177  
 Miyakado, M. 9550  
 Miyakawa, S. 11110  
 Miyake, T. 9507, 9573  
 Miyamoto, J. 11669  
 Miyamoto, K. 3161  
 Miyamoto, S. 4045  
 Miyamoto, T. 9589, 9615-9616  
 Miyayoshita, A. 10960  
 Miyao, A. 2454  
 Miyashita, K. 3208  
 Miyashita, N. T. 3871  
 Miyasono, M. 370, 4160  
 Miyata, M. 4807, 6496, 7572, 7975, 10013  
 Miyata, T. 945, 8178, 11207  
 Miyatake, M. 10095  
 Miyatake, Y. 7000  
 Miyazaki, A. 4244  
 Miyazaki, J. I. 1867  
 Miyazaki, M. 6085, 9239  
 Miyazawa, M. 5370  
 Mize, T. W. 2441  
 Mizell, R. F., III 10003  
 Mizoguchi, A. 5917  
 Mizukoshi, T. 6570, 8720, 9650, 10793  
 Mizutani, J. 803-804, 5281, 5369, 11697  
 Mizutani, N. 8295  
 Mkhize, S. S. 8731  
 Mo, H. H. 4298, 4331, 5278, 5309, 5359  
 Mo, J. H. 8333  
 Mo, T. L. 3097, 9369  
 Moar, W. J. 1268, 9515, 11588  
 Moawad, A. G. 633, 8737-8738  
 Moawad, G. M. 5602  
 Mochida, K. 7033  
 Mochida, O. 9799  
 Mochizuki, F. 3832, 4373, 10184  
 Mochizuki, M. 449, 2613, 10908  
 Mockford, E. L. 14, 5771  
 Mocquard, J. P. 75, 11488  
 Modgil, R. 2774, 9014  
 Moellenbeck, D. J. 2422, 2432, 6107  
 Moerkkerk, T. B. van 11199  
 Moermans, R. 4053  
 Moffett, D. F. 108  
 Moffett, M. F. 11625  
 Moffett, M. W. 887  
 Mogensen, M. M. 127  
 Moghadam, M. 3121  
 Moghaddam, H. D. 3615  
 Mohamed, A. I. 5198, 5458, 10401  
 Mohamed, S. A. 10417  
 Mohamed, S. H. 1754, 3540, 5414  
 Mohamed, U. V. K. 11194  
 Mohammad Ansari, I. 5934  
 Mohammad Hayat 9098, 11092  
 Mohammad Shahid 6415  
 Mohan, G. S. 6979  
 Mohan, K. S. 8453  
 Mohan, M. S. 7882  
 Mohan, P. 9963  
 Mohan, P. M. 340  
 Mohan, R. 688  
 Mohan, S. 8021, 11553  
 Mohan Singh 11776  
 Mohanamba, T. 9595, 9627  
 Mohanasundaram, M. 1186  
 Mohandas, C. 4483  
 Mohandas, N. 3511  
 Mohandoss, A. 8935  
 Mohanraj, P. 1563, 9922  
 Mohanty, B. N. 7712, 11745  
 Mohanty, S. 2962, 2991, 7133  
 Mohapatra, R. N. 1310, 9765  
 Mohapatra, S. 5489  
 Mohapatra, S. P. 4329, 8583, 10652  
 Moharram, A. M. 10594, 10640  
 Mohasin 5476  
 Mohd Basri, W. 6708  
 Mohiuddin, S. M. 2314  
 Möhl, B. 986  
 Mohr, H. D. 8774  
 Moir, D. 8523  
 Moiseenkov, A. M. 1400  
 Mojica, A. M. 9099  
 Mok, C. Y. 4240, 4339, 4806  
 Moldenke, A. F. 4673  
 Moldeus, P. 11622  
 Mole, S. 2913, 3822, 7719, 9148  
 Mølgaard, P. 802  
 Moli, F. Le 2097  
 Moli, F. le 5138  
 Molin, S. 7472  
 Molina, C. 10356  
 Molina, J. M. 7275  
 Molina, R. 10859  
 Molinari, A. M. 6846  
 Molinari, F. 7823  
 Molinari, G. P. 6881, 9594  
 Moliner, E. Andreu- 1369  
 Moll, E. 6111  
 Mollard, P. 5890  
 Mollema, C. 6617, 6816, 11834  
 Møller, A. P. 8967  
 Möller, H. 3119, 4713  
 Möller, K. 458, 953, 9986  
 Mollier, P. 4195, 4200  
 Molná, J. 10846  
 Molsen, D. V. 6742  
 Moltó, J. C. 507, 7983  
 Molunby, A. 8386  
 Momen, F. 8057  
 Momen, F. M. 189, 7984, 9144  
 Momen, H. 4164  
 Momose, K. 5727  
 Mon, T. R. 4378, 5378  
 Monahan, J. F. 9983  
 Moncada, S. 5911  
 Monchamp, J. D. 4111  
 Mondal, K. A. M. S. H. 2785-2786  
 Mondera, A. 11931  
 Monem, M. A. 5403  
 Monestier, C. 6024  
 Monet, R. 653  
 Monforte, A. 1041  
 Monge, J. P. 4482, 12086  
 Mongkolsuk, S. 9465  
 Moniz, A. C. 3366  
 Monna, L. 2454  
 Monne, M. A. 10315  
 Monro, J. 11021  
 Monroe, W. A. 5837  
 Monsarrat, A. 7441  
 Monserrat, V. J. 741, 4674, 11411  
 Montà, L. D. 2570  
 Montagna, C. M. 10590  
 Montagna, M. 4312  
 Montagne, A. 624, 2534, 5462  
 Montagne-Wajer, C. 135  
 Montandon, R. 8844  
 Montañés, J. F. C. 6370  
 Montchamp-Moreau, C. 1027  
 Monteiro, A. 2955  
 Monteiro, L. B. 4580, 7530  
 Monteiro, R. F. 1093  
 Montell, D. J. 3797  
 Montenegro, G. 5687  
 Montes, A. 10585  
 Monteseirin, F. J. 8356  
 Montgomery, B. L. 10994, 12039  
 Montgomery, M. E. 732-733, 736, 1668, 6746, 12018  
 Monti, L. 9068, 10678  
 Montllor, C. 11530  
 Montgomery, M. E. 9974  
 Montoya, A. 4238, 4284  
 Montoya, V. M. 4988  
 Montoya Gaviria, D. C. 2601  
 Montuenga, L. M. 11210  
 Moody, M. J. 7605  
 Moody, R. P. 4070, 8523  
 Moon, C. E. 11716  
 Moon, H. J. 11490  
 Moon, T. Y. 10086  
 Moore, A. 970  
 Moore, B. P. 158, 4878  
 Moore, C. J. 7062, 9177  
 Moore, D. 5225, 6237, 6505, 7424, 7427, 7466, 10446  
 Moore, J. 1880  
 Moore, J. A. 9971  
 Moore, J. N. 8769  
 Moore, K. M. 10644  
 Moore, M. L. 1911  
 Moore, P. D. 2721  
 Moore, T. E. 1098, 5026  
 Moorehead, J. R. 1667  
 Moores, G. D. 4976, 9238  
 Moorhouse, E. R. 371  
 Moorthy, P. N. K. 1521  
 Mopper, S. 11995  
 Mora, F. 410  
 Mora, M. A. 1346, 3355-3356  
 Mora, P. 91  
 Moraes, G. J. de 323, 2507, 2528, 4833, 5478, 11702  
 Moraes, J. C. de 8722  
 Moraes, R. M. 7390  
 Moral, J. del 6429, 6446-6448  
 Morales, J. 8742  
 Morales, L. 1248, 4143  
 Morales, R. A. 8521  
 Morales-Ramos, J. A. 68, 6740  
 Moralev, S. N. 4253  
 Morallo-Rejesus, B. 2444-2445, 4795, 6828, 11593  
 Moran, D. 3049  
 Moran, M. D. 10382  
 Moran, N. 3911  
 Moran, N. A. 4981, 5649, 7306, 8220  
 Moran, V. C. 5059, 6855  
 Morand, A. 11345  
 Morand, S. 8413  
 Mordue, A. J. 4381, 4764, 9166  
 Mordue, W. 80, 9166  
 Moreau, J. P. 7976, 12079  
 Moreau, P. B. 1481  
 Moreau, R. 96, 7018, 8503, 9560  
 Moreau, R. A. 5531  
 Moreby, S. J. 4409, 7241  
 Moreira, A. N. 323, 11702  
 Moreira, D. D. O. 3784  
 Moreira, M. 7270, 7855  
 Moreira, P. H. R. 4595  
 Morel, G. 4174, 8435, 10291  
 Morelli, E. 4782, 8002  
 Moreno, D. S. 10263  
 Moreno, J. 53  
 Moreno, M. J. 6351  
 Moreno M., A. 9724  
 Moreteau, B. 2988  
 Moreth, L. 2335  
 Morgan, A. V. 11364  
 Morgan, C. P. 11394  
 Morgan, D. J. W. 8293  
 Morgan, D. P. 6698  
 Morgan, E. D. 1731, 3827, 4764, 4973, 8135, 9178  
 Morgan, L. J. 2268  
 Morgan, L. W. 10430  
 Morgan, P. 762  
 Morgan, T. D. 2905, 8143, 9163  
 Morgante, J. S. 2912, 5374  
 Morgham, A. T. 6443  
 Mori, A. 2097, 5138  
 Mori, H. 1935, 10221, 10221  
 Mori, K. 1395, 2116, 5673, 7059, 7630, 8602, 9655, 9916, 10668, 10822, 11190, 11695, 12014  
 Mori, M. 266  
 Mori, N. 7105  
 Mori, S. 6481  
 Mori, T. 10123, 10641  
 Mori, Y. 11579  
 Moriguchi, I. 2304  
 Morimoto, K. 6836, 6938, 11110, 12040  
 Morimoto, N. 3196, 10380  
 Morin, C. E. 3790  
 Morin, H. 2711  
 Moriniere, M. 2898  
 Morioka, M. 1919  
 Morishita, M. 2576  
 Morison, D. 482  
 Morita, K. 4273  
 Morita, S. 7590, 8556  
 Moritz, G. 3779, 4184  
 Moritz, K. 11704  
 Moritz, R. F. A. 4096



- Moriuti, S. 3773  
Moriya, K. 3331, 6009, 7541  
Moriya, S. 4910, 5657, 7045, 7213, 7307, 10366  
Morneau, D. C. 7489  
Morón, M. A. 2850, 2875  
Moroz, L. 120  
Morr, M. 98  
Morrell, J. J. 3235  
Morrill, W. L. 6409, 6432, 12095  
Morris, C. 2775  
Morris, C. E. 10207  
Morris, J. G. 836  
Morris, M. 6467  
Morris, M. G. 2849  
Morrish, F. M. 9713  
Morrison, D. K. 2897  
Morrison, H. 482  
Morrison, L. W. 11459  
Morrison, R. D. 4611, 9906  
Morrison, W. P. 8627  
Morrone, J. J. 11124  
Morrow, D. 8480  
Morse, D. H. 2762, 4115  
Morse, D. R. 7295  
Morse, F. S. 2692  
Morse, J. G. 11450  
Mort, A. J. 2418  
Mortensen, S. R. 10596  
Mortin, M. A. 2980  
Morton, C. A. 2316  
Morton, D. B. 11253  
Morton, T. 1956  
Moscardi, F. 1248, 1472, 2485, 4143, 5245, 5251, 6260, 6535, 7226, 7304  
Moser, J. C. 8296  
Moses, M. 10571  
Moshtaghian, J. 3347  
Moskova, R. D. 11314  
Moss, D. 6092  
Moss, J. P. 10067  
Mossadeqh, M. S. 4090  
Mossakowski, D. 5827  
Mosti, M. 11447  
Mote, U. N. 9764, 11779  
Motley, T. J. 3316  
Motoba, K. 2302  
Motoyama, N. 7769, 10556  
Mott, J. 5410  
Motta, J. C., Jr. 6694  
Motz, J. E. 11364  
Mouchès, C. 8198  
Moudachirou, M. 6865  
Mound, L. 3111, 5622  
Mound, L. A. 2852  
Mounier, N. 8199  
Mount, S. M. 2945  
Moura, J. I. L. 8806  
Mourakis, P. A. 8800  
Mourkidou, E. Papadopolou-2293  
Mousseau, T. A. 186, 4776, 6033, 7107, 10146, 11163, 11170  
Moutinho, P. R. S. 1195, 7902, 7904  
Mouton, M. 4153  
Mowat, D. J. 1467, 2710, 5493, 6748  
Mowry, T. M. 7760, 9743, 10451  
Moya, A. 1951  
Moya-Raygoza, G. 4036, 10746, 11761  
Moyal, P. 2788  
Mozzone, G. C. 4613  
Mráček, Z. 7381, 7412  
Mrig, K. K. 1616, 11951  
Mrlina, G. 1704  
Mroczkowski, M. 5097  
Mrówczyński, M. 1552, 2400, 2591, 3575-3577  
Mtui, A. L. 1435  
Mu, J. Y. 2640, 9114  
Mu, S. M. 2640  
Mu, Z. L. 7852  
Mucciolini, G. 12082  
Muckenfuss, A. E. 4107, 4511  
Muddiman, S. B. 912  
Muehleisen, D. P. 139, 1909, 5887  
Mueller, A. C. W. 10639  
Mueller, D. D. 8143  
Mueller, E. 8128  
Mueller, J. G. 5107  
Mueller, L. D. 4926  
Mueller, U. G. 10361  
Muggleston, S. J. 675, 6286  
Mughogho, D. E. C. 7931  
Mugo, H. M. 9943  
Muhamad, O. 2749  
Muhamad, R. 6729  
Muhammad-Ali, A. Z. K. 5996  
Muhibullah, M. 3463  
Muhlemann, R. 5187  
Muir, D. C. G. 6380  
Muir, W. E. 6892, 8036  
Mujica, N. 5260, 5260  
Mukaruziga, C. 590  
Mukerji, K. G. 1252  
Mukesh Kumar 4329, 8583  
Mukherjee, A. B. 5584  
Mukherjee, B. 7128  
Mukherjee, D. 8979, 9633  
Mukherjee, I. 592  
Mukherjee, I. N. 3567, 9895  
Mukherjee, S. 2615  
Mukherjee, S. N. 3419  
Mukherjee, U. 5506  
Mukhopadhyay, A. 1620, 5256, 5593, 8615, 9817  
Mukund, R. 3391  
Mulchandani, L. H. 5409  
Mulè, G. 2200  
Mullahey, J. J. 11024  
Mullaney, S. L. 9246  
Mullen, M. A. 2782  
Müller, C. 5382  
Müller, H. 2271  
Müller, M. 5216, 6151  
Müller, M. D. 2047, 3141, 3328, 3703  
Müller, R. 11389  
Müller, S. 5242  
Müller, U. 7077  
Müller-Motzfeld, G. 10307  
Müller-Schärer, H. 1755, 4353, 6860, 11020, 11035  
Mullett, H. 961  
Mullié, W. C. 6358  
Mullier, G. 10342  
Mullin, C. A. 3815, 3841, 9197, 10681  
Mullin-Schading, B. A. 10447  
Mullins, R. T. 11950  
Mullins, T. 4364  
Mullis, C. H., Jr. 4516  
Mulongoy, K. 8848  
Mulrooney, J. E. 4268, 5459  
Mulvey, M. 4134  
Mulwanda, D. 6567  
Mumford, J. D. 6123, 9942  
Mumma, R. O. 2066, 7966-7967, 10011  
Mummery, R. 4566  
Mundaca B., N. 3937  
Munderloh, U. G. 2179  
Mundiwale, S. K. 2438-2439, 6475  
Munguira, M. L. 240  
Muniategui, S. 9601  
Munir, B. 4668  
Muniyappa, V. 11735  
Muniz, E. C. 3404  
Munks, R. J. L. 1880  
Munoz, E. 7900  
Muñoz, M. J. 11395  
Muñoz L., E. 3565  
Munro, V. 6743  
Munshi, J. S. D. 5313, 9459  
Münster-Swendsen, M. 2506, 2508-2510  
Munsterman, E. 2233  
Munthali, S. M. 7931  
Munthe, K. 6431  
Munz, C. D. 2057  
Muqueem, A. 7844  
Murado, D. M. 5646  
Murai, K. 4276  
Murai, N. 4304  
Murai, T. 6564, 9792  
Murai, Y. 8608  
Murakami, A. 9253  
Murakami, S. 4725  
Murakami, Y. 7860, 10366, 10621  
Muraleedharan, D. 3067, 5373, 10193  
Muraleedharan, N. 3132, 3597-3598, 7882, 8824, 10909  
Murali, R. 5752  
Muralidharan, C. M. 1579, 3914, 5615  
Muralidharan, N. 6869  
Muraligrangan, M. C. 11188  
Muralirangan, M. C. 3088  
Murao, T. 6060  
Murasaki, C. 3321  
Murata, K. 8660, 11739  
Murata, N. 8602  
Murayama, O. 2899  
Murdoch, W. W. 2114, 8788, 9299  
Murdoch, L. L. 2777, 4810, 9546  
Murfit, R. F. A. 6896  
Murguía, M. 2165  
Muriillo, A. 3472, 11742  
Muriillo, T. 3788  
Murlidharan, C. M. 7858  
Muromtsev, G. S. 1917  
Murphy, A. M. 8211  
Murphy, D. D. 1059, 3913, 3923, 8264, 10235, 10930  
Murphy, G. J. 429  
Murphy, M. J. 3384  
Murphy, S. T. 3915  
Murphy, T. R. 4757  
Murray, A. M. 9307  
Murray, C. 9151  
Murray, C. L. 10207  
Murray, D. A. 7061  
Murray, D. A. H. 3688, 5388, 9367, 9429  
Murray, J. A. 981  
Murray, L. 11716  
Murray, M. J. 46  
Murray, P. J. 4392  
Murray, R. C. 2497, 2518, 2531, 3515  
Murthy, J. N. A. 2542  
Murthy, K. S. 6870  
Murthy, K. V. K. 10777  
Murthy, M. K. R. 8516  
Murthy, M. M. K. 6624, 10037-10038  
Murthy, T. G. K. 7872  
Murthy, U. S. 6272  
Murthy, V. 1614, 3596  
Murty, G. V. G. K. 8007  
Murty, M. G. 8326  
Murty, U. R. 6477  
Muruaga de l'Argentier, S. 5821  
Murugan, K. 582  
Murugesan, K. 11611  
Musasa, M. 661  
Muse, W. A. 6145  
Musial, W. 2503  
Musiol, I. M. 1858  
Muslukhov, R. R. 3304  
Musselman, L. J. 2757  
Musser, S. M. 9396  
Mustafa, M. 4301  
Mustaghfirin 6482  
Mustaniemi, A. 5664-5665  
Musumeci, M. R. 7619  
Muter, A. 5288, 11596  
Muthaiyan, M. C. 5752  
Muthiah, C. 3585  
Muthu, S. P. 1265  
Muthukrishnan, S. 6249  
Muthukumaraswamy, R. 1614  
Muthumani, K. 1265, 5199  
Muthuswami, M. 7638  
Mutinelli, F. 7367  
Mutschler, M. A. 10481  
Muttard, F. A. 5198  
Mutton, P. 11854  
Mutungi, G. M. 5316  
Muzaffar Ahmad 3685  
Mvumi, B. M. 841  
My, J. 1314  
Myers, D. E. 7783  
Myers, J. E. 10627  
Myers, J. H. 3290, 4173  
Myhre, E. A. 1988, 3939  
Mykles, D. L. 11197  
Myles, T. G. 6867  
Mylswami, V. 688  
Myon-Ok, R. 2036  
Myren, D. T. 6937  
Mytton, L. R. 4481  
Nachman, G. 2506, 2508-2510  
Nachtigall, G. 6749  
Nachtigall, W. 10347  
Nada, M. 456, 1633  
Nadeau, B. 4070  
Nadel, H. 4601  
Nadi, K. M. 7833  
Nadig, A. 8095  
Nadira Akhtar 2786  
Naem, M. 554  
Naem, S. 5082  
Nafus, D. M. 1582  
Nag, A. 3500, 4056  
Nagahama, T. 9466  
Nagai, H. 3524  
Nagaiah, K. 9815  
Nagamatsu, K. 10573  
Nagamine, T. 5224, 9507  
Nagano, T. 1324  
Nagao, Y. 12020  
Nagaoka, S. 7042, 11178  
Nagaraj, B. 8401  
Nagaraj, C. R. 7375  
Nagarajan, M. 165  
Nagaraju, J. 9218, 9254  
Nagaraju, N. 10777  
Nagasaka, K. 2019  
Nagasawa, H. 984  
Nagasawa, T. 11569  
Nagase, A. 1014  
Nagashima, K. 1182  
Nagashima, T. 10111  
Nagasundara, K. R. 6052  
Nagata, K. 10592  
Nagata, R. T. 2527, 11392  
Nagata, T. 6544  
Nagatomi, A. 4876, 10310  
Nagaya, Y. 6386, 7612  
Nagayama, T. 10575, 10577  
Nageleisen, L. M. 7908  
Nageswara Sarma, P. 1366  
Nagia, D. K. 7666, 7795  
Nagnan, P. 4885-4886  
Nagoshi, R. N. 9248  
Nagraba, K. 2060  
Nagy, Cs. Z. 2733  
Nagy, L. 4129, 9103  
Nagy, L. M. 1011  
Nagy, S. R. 10595  
Nahif, A. A. 1104  
Nahrstedt, A. 8128  
Naidu, R. 1735, 3603  
Naidu, R. R. 10332  
Naik, B. G. 5572  
Naik, K. 11586, 11744  
Naik, L. K. 5599  
Naik, M. 4652  
Naik, R. K. 1766  
Naik, S. S. 10607  
Nair, G. A. 5198, 10401  
Nair, K. R. 1600  
Nair, K. S. 656  
Nair, M. K. 5763  
Nair, P. N. 10165  
Nair, S. 11194  
Nair, T. 10869  
Nair, V. S. K. 3409, 11151  
Naito, S. 9928  
Naito, T. 39, 4991  
Najem, R. W. 6065  
Najt, J. 8895  
Nakache, Y. 8805  
Nakagawa, Y. 2254, 4351, 7553, 10670, 10672  
Nakagome, T. 6278, 6340  
Nakahara, S. 919  
Nakahira, T. 3671, 5044  
Nakai, I. 765  
Nakai, K. 10672  
Nakai, T. 10269



- Nakamura, A. 4503, 7468  
 Nakamura, K. 4239, 4368, 4372, 4732, 6299, 9270, 9548, 10642  
 Nakamura, M. 4807, 7031, 11150  
 Nakamura, P. H. 7448  
 Nakamura, S. 307, 4274, 6481  
 Nakamura, T. 7033  
 Nakamura, Y. 468, 844, 4805, 4807, 5740, 6886, 9604  
 Nakanishi, M. 4372  
 Nakano, O. 4529  
 Nakano, S. 9116  
 Nakano, Y. 1182  
 Nakao, S. 4014, 7006  
 Nakashima, M. 8325  
 Nakashima, N. 3272, 9477, 11511  
 Nakashima, T. 4368, 4372, 6801  
 Nakasone, F. 7853  
 Nakasuga, T. 7505, 7698  
 Nakasuji, F. 67, 150, 348, 1865, 2749, 3196, 4952, 4991, 7708, 7985, 10270  
 Nakata, T. 7234, 7754, 7758-7759, 9781  
 Nakatani, I. 2899  
 Nakatani, M. 3318, 8613  
 Nakatani, Y. 1039  
 Nakato, H. 1937  
 Nakatsuka, I. 6352  
 Nakayama, M. 7582  
 Nakazawa, H. 1935  
 Nakazawa, I. 12020  
 Nakhla, M. K. 6602-6603  
 Nako, S. 529  
 Nalepa, C. A. 4748  
 Nam, F. Y. 5045  
 Nam, K. S. 1763, 4336  
 Nambiar, T. A. 2797  
 Namdeo, K. N. 6534, 10755  
 Namkoong, Y. 1933  
 Nanba, A. 11497  
 Nance, E. L. 10053  
 Nanda, N. 2731  
 Nandagopal, V. 7872, 10244  
 Nandanwar, V. N. 3613  
 Nandihalli, B. S. 4485, 4650-4651  
 Nannipieri, P. 528  
 Nanou, N. 7627  
 Naoki, H. 3318  
 Naoshima, Y. 523  
 Napolitano, M. 6011  
 Napp, D. S. 6957  
 Napp, M. 3898  
 Naqvi, A. R. 9883  
 Naqvi, S. N. H. 11597  
 Narahashi, T. 10592  
 Narai, N. 4094  
 Narain, K. 833  
 Naranjo, S. 706  
 Naranjo, S. E. 712, 10922  
 Narasimhan, K. S. 2773, 8019  
 Narasinga Babu, K. N. 7968  
 Narayana, Y. D. 11735  
 Narayana Swamy, T. K. 3258  
 Narayanan, P. 10043  
 Narayanan, S. S. 9963  
 Narayanappa, E. 7743  
 Narayanaswami, V. 3820  
 Nardon, P. 1887, 1903, 9213  
 Nargis, A. 5732  
 Nargis Ismail 6398  
 Nariboli, P. 10223, 10225  
 Narita, M. 7572  
 Narkhede, P. W. 6625  
 Narkiewicz-Jodko, J. 1501, 1513  
 Narske, E. D. 4229  
 Nartshuk, E. P. 11122  
 Narula, J. S. 9357  
 Narula, N. 4278  
 Narula Neeru 4278  
 Narváez, Z. 4383, 5477, 7751  
 Narwal, S. S. 6933, 8034  
 Nascimento, E. C. do 1660, 3639, 7159  
 Nascimento, F. N. do 4384, 4586  
 Nascimento, R. R. do 4973  
 Naseer, M. 1991  
 Naseerulla, M. K. 1060, 9224  
 Nash, D. R. 8946, 9422, 12029  
 Nash, M. H. 9452  
 Nash, R. J. 6742  
 Nashnosh, I. 3486  
 Nashnosh, I. M. 3274  
 Nasr, E. A. 3064  
 Nasr, F. N. 11876  
 Nasr, N. M. 2157  
 Nasreen, S. 5843  
 Nassar, S. S. T. 5313  
 Nasseh, O. 1728, 4079  
 Nässel, D. R. 1894  
 Nasser, M. A. K. 3215  
 Nasser, M. A. K. A. 1754  
 Nasser, M. J. 176  
 Nassif, W. 2325  
 Nasu, Y. 5560  
 Natarajan, K. 5355  
 Natarajan, S. 3665  
 Natarajan, U. 9638  
 Nataraju, B. 2174, 9468, 9471, 11523  
 Nath, B. S. 8516  
 Nath, P. 2541, 3500, 4056, 5468  
 Nath, P. D. 5470, 9766  
 Nath, P. S. 8291  
 Nation, J. L. 404, 11285  
 Natori, S. 11490  
 Natuhara, Y. 7177  
 Natwick, E. T. 4659, 8841  
 Natzle, J. E. 1905  
 Nault, A. 9791  
 Nault, A. J. 2327  
 Nault, L. R. 1439, 4168, 7684, 11728  
 Nauman, C. H. 2318, 2813  
 Naumann, C. M. 950, 7009  
 Naumann, I. D. 9853  
 Naumann, K. 7951, 9368, 11699  
 Navajas, M. 4497, 8201  
 Navarro, R. V. 7497  
 Navarro, S. 6037, 6912  
 Navarro F., J. R. 9430  
 Navarro Garcia, S. 10859  
 Navas, V. E. S. 8741  
 Naveeda Tufail 2280  
 Naveen Chandra 6592  
 Naveira, H. 10237  
 Navon, A. 3546, 5268, 7394, 7490  
 Navone, P. 11855  
 Navrátilová, M. 10820  
 Nawale, R. N. 9764, 11779  
 Nawar, A. A. 3441  
 Nawar, M. S. 1968, 9092  
 Nawrocka, B. 1501, 1513  
 Nawrot, J. 4974  
 Naya, S. I. 114, 10149  
 Nayak, A. K. 4327  
 Nayak, N. 3590  
 Naylor, D. H. 868  
 Naylor, S. K. 868  
 Nayrolles, P. 9067  
 Nazareth, S. L. 3938  
 Nazim Anwar, M. 9751  
 Nazir, Z. 10582  
 Nazzi, F. 3798  
 Ndamba, J. 802  
 Ndiaye, A. B. 893  
 Ndiege, I. O. 10167  
 Ndifon, G. T. 8235  
 Ndungi, A. W. 3604  
 Nead, B. A. 1591  
 Neal, J. J. 4230, 9167  
 Neal, J. W., Jr. 3867, 8487, 11192  
 Neal, M. 2650  
 Nealis, V. G. 4724, 7960  
 Nebeker, A. V. 1347, 3358, 6362  
 Nebeling, B. 990  
 Nebuloni, C. 9594  
 Nechols, J. R. 11422  
 Neculiseanu, Z. Z. 10240  
 Neder de Román, L. E. 9754  
 Nedopekina, S. F. 520  
 Nedvėd, O. 2903  
 Nee, S. 5055  
 Needham, G. R. 4108  
 Neel, V. A. 5980  
 Neems, R. M. 6012, 8257  
 Neena 3907  
 Neese, P. A. 9688  
 Neesen, J. 11254  
 Neethling, C. 1583-1584, 2587, 9905, 10883  
 Nef, L. 9973  
 Nefedov, O. M. 1400  
 Negi, D. V. 6759  
 Negi, S. S. 9040  
 Negro, J. J. 3382  
 Negrón, J. F. 7945  
 Neidert, E. 5733  
 Neilson, W. T. A. 9856  
 Neira C., M. 3937  
 Nekhai, A. S. 11724  
 Nel, E. M. 3656  
 Nel, J. 584  
 Nel, J. A. J. 2142  
 Nelis, S. 4053  
 Nell, H. W. 2748  
 Nellaippan, K. 10219  
 Nelsen, T. C. 4030, 4214, 9698  
 Nelson, C. J. 863  
 Nelson, C. R. 7340, 11371  
 Nelson, D. R. 5936, 7101  
 Nelson, G. H. 36, 9055  
 Nelson, H. 9647  
 Nelson, J. M. 4659, 11424  
 Nelson, K. C. 636  
 Nelson, M. R. 7783  
 Nelson, P. E. 2183  
 Nelson, R. E. 9359  
 Nelson, S. D. 4417  
 Nemcsók, J. 452, 8547, 11615  
 Nemoto, H. 576, 2453, 9814  
 Nénon, J. 2833  
 Nénon, J. P. 60, 3837, 5157, 9132, 10257  
 Netwigt, W. 2759, 4399, 5160, 6922  
 Nepal, Lumle Agricultural Research Centre 2807  
 Nes, W. D. 9214  
 Nesor, O. C. 7283  
 Nesor, S. 10025  
 Ness, D. K. 3347  
 Nestel, D. 6627, 10710  
 Nesterov, E. A. 520  
 Nesterov, Ye. A. 4359  
 Netherlands, Commissie voor Inventarisatie en Natuurbescherming van de Nederlandse Entomologische Vereniging 1788  
 Netherlands, Nederlandse Entomologische Vereniging 1788  
 Netherlands, Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond 623, 6594, 7779, 8954, 8964  
 Netherlands, Research Station for Fruit Growing, Wilhelminadorp 853  
 Netherlands, Westvlaamse Proeftuin voor Industriële Groenten 1283  
 Neto, L. 9066  
 Neto, S. S. 2079  
 Neuenschwander, P. 5164, 6567, 8984, 10884, 11904  
 Neumann, D. 5863  
 Neumann, F. 1243  
 Neumann, F. G. 5641, 6752, 7912  
 Neumann, J. C. 4699  
 Neumann, U. 2543-2544, 4575, 11878  
 Neunzig, H. H. 4834  
 Neuveglise, C. 4161, 11504  
 Neuvonen, S. 1655  
 Neuweiler, R. 11866  
 Nevalainen, T. 265  
 Neven, H. 5124  
 Neven, L. G. 6265  
 Nevo, E. 10239  
 New, T. R. 9354  
 Newell, C. A. 2232, 5269, 9945  
 Newfield, S. J. 167, 9250  
 Newitt, R. 11260  
 Newland, P. L. 983  
 Newman, A. 473  
 Newman, M. C. 4134  
 Newman, S. M. 11152  
 Newsted, J. L. 3355-3356  
 Newton, A. F. 9077  
 Newton, W. 6467  
 Nez, P. 5946  
 Nezin, L. 120  
 Ng, N. Q. 2776  
 Ng, P. 10625  
 Ng, S. S. 10506  
 Ngebe, B. 500  
 Ngeve, J. M. 8717  
 Ngo, D. M. 2054  
 N'Guessan, F. K. 1458, 6483  
 Nguyen, B. 3137  
 Nguyen, K. B. 4756, 8417  
 Nguyen, Q. 7347  
 Nguyen, R. 3554, 11909  
 Nguyen, T. A. 9513  
 Nhachi, C. F. B. 11622  
 Ni, C. Z. 6401  
 Ni, H. X. 10689  
 Ni, L. X. 10372  
 Ni, S. H. 3454  
 Ni, T. S. 10202  
 Ni, X. Z. 11500  
 Niber, B. T. 4801  
 Niblett, C. L. 4591  
 Niccoli, A. 9851  
 Nicholas, P. R. 10869  
 Nichols, R. A. 8267  
 Nichols-Orians, C. M. 5650  
 Nicholson, R. A. 3363, 9212  
 Nickisch-Rosenegk, E. von 4928, 5939  
 Nicklas, G. 10219  
 Nickle, W. R. 8418  
 Nico, L. G. 11668  
 Nicol, C. M. Y. 1727  
 Nicol, D. 7672  
 Nicol, H. 2556  
 Nicolai, V. 1650, 1670, 10972  
 Nicolas, P. 11230  
 Nicolli, G. 2412, 11833  
 Nicolson, S. W. 5682  
 Nie, G. F. 3254  
 Niehoff, B. 8632  
 Niekerk, P. van 923  
 Nielsen, B. O. 2409  
 Nielsen, G. R. 6026  
 Nielsen, L. B. 2409, 5452  
 Nielsen, L. K. 6250  
 Nielsen, S. S. 7038  
 Niemalä, J. 5626  
 Niemalä, J. K. 8375  
 Niemczyk, E. 2548, 5519  
 Niemczyk, H. D. 10009  
 Niemelä, J. K. 5102  
 Niemelä, P. 2871  
 Niemeyer, H. M. 5404, 5406, 6436  
 Nieminen, M. 4027  
 Nietter, I. 10508  
 Nieukerken, E. J. van 9652  
 Nieuwland, K. N. 10297  
 Nieves-Aldrey, J. L. 4844, 11113  
 Nigam, B. S. 849  
 Nigam, K. B. 8956  
 Nigam, S. K. 8481  
 Nigg, H. N. 1351, 1354, 1360, 1789  
 Nigg, N. H. 9659  
 Nigro, L. 2978  
 Nihoul, P. 3523  
 Niho, C. 10921  
 Niimi, A. J. 10568  
 Niimi, T. 8218  
 Niyyama, T. 6341, 6345  
 Nijenstein, J. H. 11723  
 Nijhout, H. F. 3020, 8042  
 Nijs, T. P. M. den 703  
 Nik Mohd. N. N. S. 7706  
 Nikam, P. K. 11093, 11118



Nikami, T. 5129  
Nikiforov, M. N. 2413  
Nikitich, O. A. 11276  
Nikodinov, M. 2345  
Nikolaeva, N. G. 6202  
Nikonov, A. A. 4359, 10122  
Nikritin, L. M. 11859  
Nilamani, L. 10312  
Nilson, A. 11984  
Nilssen, A. C. 77, 1692, 10974  
Nilsson, C. 8801  
Nilsson, D. E. 3843, 10186  
Nilsson, T. 4312  
Nilufar, B. 5830  
Nimbalkar, S. A. 3580, 3613  
Nimrod, A. C. 8529  
Nirgianaki, A. 6224  
Nirmala, M. R. 6271  
Nirmala Devi 7236  
Nirmalendu Bhattacharyya, N. 10802  
Nisbet, A. J. 143, 9166  
Nisbet, R. M. 2114, 9299  
Nishida, A. 8493  
Nishida, G. M. 3732, 8037  
Nishida, N. 4807  
Nishida, R. 4356, 4566, 7105  
Nishida, T. 9137, 9940  
Nishikawa, J. 6352  
Nishima, T. 10575, 10577  
Nishimune, T. 10213, 10621  
Nishimura, K. 4351, 7553, 10670, 10672  
Nishina, M. 9575  
Nishino, H. 4075  
Nishino, K. 11181  
Nishioka, S. 3321  
Nisperos-Carriedo, M. 2768  
Nitao, J. K. 10438  
Nitto, G. A. de 1767  
Niu, Y. Z. 11143  
Niva, C. C. 557, 5395, 10758  
Niven, D. F. 11509  
Njagi, P. G. N. 3836, 5122  
Njogu, F. N. 5273  
Noccoli, A. 9850  
Noda, H. 3272, 9477, 10199, 11511  
Noël, V. 12053  
Nogaro, M. 5903, 9185, 9217  
Noguchi, H. 6189  
Nogueira, L. A. 5420  
Nogueira, S. B. 3476  
Noguer, T. 10597  
Nogueira, F. 6134  
Nohara, K. 8660, 11739  
Nohara, S. 5362  
Nolan, R. A. 10428  
Noldt, U. 5833, 9174  
Noll, I. E. van der 5290  
Noll, R. 5982  
Nolting, H. G. 4341, 7603, 8582  
Nomura, A. 10604  
Nomura, M. 2987  
Nomura, O. 7538  
Nomura, S. 10641, 11372  
Nonacs, P. 5125, 10260  
Nong, H. K. 10734  
Nong, L. 11898  
Nong, M. L. 10734  
Nonnaizab 10314  
Nontaso, N. 10390  
Nonveiller, G. 8310  
Nony, P. 4989  
Noonburg, E. G. 1056  
Noone, D. F. 2608  
Noor, M. A. 8297, 11141  
Noorani, A. M. 10771  
Noordam, D. 9096  
Noordwijk, A. J. van 11980  
Noort, S. van 672, 1967, 2864, 8080, 8265  
Noot, D. 9646  
Nord, J. 6782  
Nordenhem, H. 758  
Nordin, G. L. 6247, 11499  
Nordlander, G. 758  
Nordlund, D. A. 299, 3133, 4113  
Nordmark, L. 3169  
Norero, A. L. 9269  
Norin, T. 8908, 11189  
Normala, S. 6390  
Norman, A. P. 9291  
Norman, J. M. 10363  
Norman, J. W. 2629  
Norman, S. 7389  
Norrbom, A. L. 9, 17  
Norris, D. E. 5975  
Norris, D. M. 6528, 6530  
Norry, F. M. 9256  
Norstog, K. J. 6742  
Norstrom, R. J. 1342, 4306  
Northcraft, P. P. D. 8763  
Norton, A. P. 5537  
Norton, R. A. 9214, 10715  
Notario del Pino, J. S. 8491  
Noteborn, H. P. J. M. 634  
Notenboom, J. 5318  
Nöthel, H. 1940  
Nothof, U. 1897  
Notsu, Y. 12000  
Nott, R. 7321, 8345  
Notte, E. la 11884  
Nottingham, S. F. 1394  
Notz, A. 5477, 7751-7752  
Noudon-Padieu, E. 5252  
Novak, H. 6813  
Novák, I. 234, 5588  
Novicki, A. 7075  
Novo, J. P. S. 7886  
Novo, R. J. 9789  
Novoa, F. 8304  
Novopashenny, I. 2372  
Novotný, V. 5077, 7255  
Novotný, V. 8969  
Novozhilov, K. V. 3303  
Nowacka, W. 1551  
Nowacki, J. 6090  
Nowak, J. 1380  
Nowakowski, M. 7659  
Nowee, B. 6065  
Nowierski, R. M. 6433, 7649  
Nowinski, L. 6927  
Noyer, C. 9821  
Noyes, J. S. 3766  
Noyes, R. T. 6877  
Noyra, M. 4088  
Nozaki, H. 7582  
Nozato, K. 10288  
Nozawa, H. 10562  
Nser, O. C. 3217  
Ntonifor, N. N. 6568, 8848  
Nuckols, M. S. 12025  
Nuessly, G. S. 2527, 4664, 4670, 6595, 6696, 10803, 11392  
Nugent, M. J. 9490  
Nuland, D. S. 2491  
Numata, A. 10393  
Numata, H. 232, 975, 7034, 11337  
Numata, M. 5190  
Nunes, M. V. 3946  
Núñez-Farfán, J. 3696  
Núñez Pérez, E. 6835  
NúnTez, J. A. 11410  
Nurazzaman, M. 10401  
Nurmalinda 9794  
Nurminsky, D. I. 166  
Nurthen, R. K. 1073, 1953  
Nussbaum, T. 5919  
Nüssler, H. 8314  
Nuzhdin, S. V. 5972  
Nuzillard, J. 10339  
Nwanze, K. F. 3450, 4435, 5431, 7691  
Nyambo, B. 1418  
Nyffeler, M. 4393, 4669, 6161  
Nylin, S. 530, 3921, 4387, 9333  
Nyouki, F. F. R. 2192  
Nyrop, P. 649, 3535, 4551, 4553, 4561, 6071, 6648  
Nystrom, C. W. 9568  
Nyumura, N. 2924, 6220  
Oakeshott, J. G. 1959, 8224  
Oakley, J. N. 545  
Oană, M. 2572  
Obana, H. 10213  
Obara, H. 11177  
Obara, Y. 3989, 3992  
Obendorf, D. 3378  
Obeng-Ofori, D. 3836, 5122  
Oberlander, H. 2898, 2934, 4352, 4963, 7055, 11225  
Obermaier, B. 8221  
Obermayer, M. 2917  
Oberthür, W. 142  
Oberti, J. C. 10679  
Oberwalder, C. 2368  
Obiri, J. A. F. 1705  
Obra, J. B. 4795  
O'Brien, C. 11124  
O'Brien, E. 10144  
O'Brien, G. K. 10516  
O'Brien, L. 3764  
Obrist, M. 1163  
Obrycki, J. J. 3484, 4423, 10145, 10370  
Obselková, Z. 1303  
Obuo, J. E. 6545  
Ocampo, P. 1459  
Ocete, M. E. 6992, 6996, 7898  
Ocete, R. 6996, 7898  
Ochando, M. D. 3780  
Ochieng, S. A. 10169  
Ochieng'-Odero, J. P. R. 1068, 6022, 6423, 8336  
Ochoa, R. 5115  
O'Connell, N. 8787  
O'Connor, J. P. 3635, 7268  
O'Connor, M. A. 7268  
Oda, J. 10641  
Odanaka, Y. 5685  
Odawara, M. 6009  
Ode, P. 9833  
Ode, P. J. 3334, 8270  
O'Dea, J. J. 5286  
Odebiyi, J. A. 6568  
Odeyemi, O. 3676  
Odhiambo, J. W. 1296  
Odierna, G. 6118  
Odindo, M. O. 3449  
Odino, M. O. 6242  
Odinokov, V. N. 518-519, 521, 3304, 8603, 10344  
Odjo-Thomas, A. 5423  
Odongo, H. 9179, 11300  
O'Donnell, D. J. 4363, 11013  
O'Donnell, K. H. 8207  
O'Donnell, P. T. 10216  
O'Donnell, S. 6197, 9309  
O'Dowd, D. J. 735, 1639, 3418, 5596, 7150  
Oduor, G. I. 6427  
Oehlschlager, A. C. 4362, 4371, 4376, 4622, 7058, 7627, 9982  
Oehlschlager, C. 682  
Oehme, M. 2047, 5346, 6357  
Oerke, E. C. 1431, 1476, 8043  
Oers, M. M. van 7443  
Oetting, R. D. 787, 2717, 3988, 7781, 11640  
O'Farrell, P. H. 8197  
Offidani, A. 3370  
Oficial, R. 3352, 10657  
Ofuya, T. I. 807, 5850, 6897, 7746, 8701, 12068  
Ogaard, L. 7430  
Ogata, K. 11822  
Ogawa, K. 4325  
Ogedah, K. 4397  
Ogenga-Latigo, M. W. 6541, 6545  
Oghiakhe, S. 1487, 11787-11788  
Ogino, K. 1233  
Ogiwara, K. 4163, 4165, 6119, 6251  
Ogren, K. L. 5853  
Oguma, Y. 1031, 3963, 11338  
Ogura, N. 5248  
Ogura, T. 10215  
Ogwang, J. A. 6242  
Oh, H. S. 1933  
Oh, S. H. 6094  
O'Hara, J. E. 1831, 4824  
Ohara, M. 6341  
O'Hara, P. 11479  
Ohara, Y. 2019  
Ohashi, N. 2374, 9602, 10574  
Ohashi, O. S. 3806  
Ohba, K. 370, 4160  
Ohba, M. 4163, 4165, 6251  
Ohgushi, T. 2017  
Ohh, M. H. 12075  
Ohha, N. G. 9298  
Ohkawa, T. 7457  
Ohkawara, K. 6155  
Ohkubo, N. 10366  
Ohkura, H. 1921  
Ohm, H. 9683  
Ohm, H. W. 4402  
Ohmura, W. 11463  
Ohnesorge, B. 4124, 6667, 7205  
Ohnishi, E. 6005  
Ohnishi, J. 4304  
Ohnishi, J. I. 5262  
Ohnishi, K. 4335  
Ohno, K. 11269  
Ohno, N. 5289  
Ohno, R. 9574  
Ohno, Y. 10573  
Ohsaki, N. 1740, 2019  
Ohsako, T. 4044  
Ohsawa, K. 12043  
Ohshima, M. 6353, 11569  
Ohta, I. 7203  
Ohtaishi, M. 10908  
Ohtaka, K. 11629  
Ohtake, S. 3251  
Ohtake, S. I. 352  
Ohtani, T. 523  
Ohya, E. 2739, 4372, 6801  
Oi, D. H. 1190, 4084  
Oian, B. 11854  
Oien, C. T. 9482  
Oikawa, B. 10672  
Oikawa, H. 6643  
Oikawa, K. 8170  
Oikawa, N. 2254, 4351, 7553, 10670  
Oishi, K. 3803, 10138  
Oishi, T. 10275, 10563-10564  
Ojeda Peña, D. 5573  
Ojha, N. G. 7050, 10140  
Okada, H. 348  
Okada, I. 7540  
Okada, M. 391  
Okada, T. 4500-4502, 9048  
Okamoto, H. 2714  
Okamoto, K. 7572  
Okamoto, M. 110, 974  
Okamoto, Y. 5633  
Okamura, H. 3318, 8613  
Okamura, S. 7998  
Okano, H. 4983  
Okano, K. 7372, 10215  
Okano, M. 5383  
Okouchi, T. 3340  
Okazaki, S. 11264  
Okazawa, T. 6039  
O'Keeffe Knowles, D. 9355  
Okello-Ekochu, E. J. 556  
Oker-Blom, C. 10153  
Oki, Y. 2749  
Okie, W. R. 6654  
Økland, B. 8923  
Okot-Kotber, B. M. 2905, 5188  
Okrasinski, J. L., Jr. 10330, 10567  
Okrouhlá, M. 1411  
Oksanen, J. 5664-5665, 7937, 11562  
Oksman, P. 4974  
Oku, A. 5333  
Oku, H. 6009  
Oku, T. 6063  
Okubo, T. 10767  
Okuda, T. 7031, 7359, 8147, 9146  
Okui, S. 7540  
Okuku, I. E. 807  
Okuma, M. 5443, 5724  
Ólafsdóttir, K. 11649  
Olaifa, J. I. 608, 8957  
Oland, L. A. 2934  
Olano, I. de 7276  
Olckers, T. 8966, 8976, 8982, 11029  
Oldfield, G. N. 7826  
Oldfield, S. 2941  
Oldham, N. J. 3827  
Oldroyd, G. 9813



- O'Leary, C. 4584  
 Olesen, U. 10435  
 Olien, W. C. 4578, 5542  
 Oliva, A. 1621-1622  
 Oliveira, A. C. 7159  
 Oliveira, A. J. de 1504  
 Oliveira, C. D. 7448  
 Oliveira, C. R. B. 10892  
 Oliveira, E. P. de 3072  
 Oliveira, J. V. de 1485, 8643  
 Oliveira, L. J. 1471  
 Oliveira, M. A. de 5053  
 Oliveira, M. A. P. 8642  
 Oliveira, M. C. M. 1463  
 Oliveira, P. S. 7897  
 Oliveira Guassu, C. M. de 9811  
 Oliveira Rigitano, R. L. de 3399  
 Oliver, B. 5962  
 Oliver, J. E. 1399, 9658, 11192  
 Oliver, M. 2244  
 Olivera, C. 4000  
 Oliverio, M. 9110  
 Olivieri, I. 12053  
 Ollimo, P. 1418  
 Ollo, R. 1040  
 Ollula, A. 3578  
 Olsen, P. 460  
 Olson, D. L. 11422  
 Olson, D. M. 289, 4676  
 Olson, J. K. 6154  
 Olson, L. 10435  
 Olson, M. 11038  
 Olson, M. H. 1568, 4600, 6691  
 Olson, M. W. 1938  
 Olson, S. M. 8741  
 Olsson, K. 5488, 6561, 11681  
 Olszak, R. W. 444  
 Olthof, T. H. A. 12037  
 O'Mahony, P. J. 8219  
 O'Malley, K. J. 3332, 11892  
 O'Malley, M. 8531  
 O'Malley, M. A. 1357  
 Omana Joy 3882  
 Omar, E. E. 5758  
 Omar, M. O. M. 3361  
 Omar, M. Y. 6488  
 Omar, O. 6390  
 Omar, S. A. 7591, 10594, 10640  
 Omata, R. 11958  
 Omata, T. 2430  
 Omer, A. D. 10916  
 Omolo, E. 6417  
 Omolo, E. O. 1418  
 Omoregie, E. 2282  
 Omura, T. 575  
 Öncüer, C. 1519  
 O'Neil, R. J. 610, 1410, 2475, 4106  
 O'Neill, E. M. 7139  
 O'Neill, K. M. 3228, 4080  
 O'Neill, L. P. 1880  
 O'Neill, R. P. 4080  
 O'Neill, S. L. 2166  
 Ong, S. H. 4796  
 Ongagna, P. 209  
 Onken, A. B. 6441  
 Ono, H. 3100  
 Ono, M. 266, 453, 1891-1892, 2766, 4935, 7544, 7546, 10829  
 Ono, T. 3834  
 Onodera, T. 10380  
 Onsager, J. A. 10359  
 Onsongo, E. K. 6427  
 Onstad, D. W. 9382, 9484  
 Önuçar, A. 1148  
 Onyango, F. O. 6423, 8336  
 Onyango, P. 6224  
 Oomen, P. A. 4093  
 Oortgiesen, M. 4249  
 Oostdam, J. C. van 5342  
 Oostdyk, T. S. 9410  
 Oostendorp, A. 9173, 9225  
 Oosthuizen, J. H. 8791  
 Oostingh, I. 10610  
 Oura, H. 5195  
 Op Akkerhuis, G. A. J. M. Jagers 5407  
 Oparka, K. J. 2266, 6593  
 Opell, B. D. 4891  
 Opendor Koul 11682  
 Oppenheim, D. 3537  
 Oprea, M. 564  
 Opschoor, J. B. 6306  
 Orafidiya, L. O. 8957  
 Orafidiya, O. O. 608  
 Oraze, M. J. 8667  
 Orchard, I. 7067  
 Ordás, A. 9707  
 Ördögh, G. 8901  
 Ordóñez-Giraldo, A. I. D. H. 719  
 O'Reilly, D. R. 5227, 8038, 9391, 9476  
 Orengo, D. J. 3879  
 Ori, M. 641  
 Orio, F. di 2315  
 Ortiz, A. S. 7302  
 Orjala, J. 3247  
 Örländer, G. 6779  
 Orloff, S. B. 10464  
 Ormel, G. J. 10045  
 Ormerod, S. J. 10602  
 Ormaghi, J. 7648  
 Orondo, S. B. O. 7963  
 Orotin, P. 6545  
 Orozco, D. 7158  
 Orozco-Santos, M. 3532, 8779  
 Orr, D. B. 4423  
 Orr, G. L. 3839  
 Orr, P. 4285  
 Orr, W. C. 81, 963  
 Orrego, C. 11244  
 Orrù, L. 11845  
 Ortega, A. M. 8709  
 Ortega, F. 10597  
 Ortega, N. 528  
 Ortega León, G. 11010  
 Ortega M., E. 9725  
 Ortega Saenz, C. 9869  
 Ortego, F. 6399  
 Ortego, J. 7971, 10493  
 Ortel, J. 11563  
 Ortiús, D. 10200  
 Ortiz, A. S. 7341  
 Ortiz-García, R. 6610  
 Orts, R. 8765  
 Ortuño, V. M. 1160  
 Orum, T. V. 7783  
 Os, E. A. van 3406  
 Osakabe, M. 1958, 5541, 7045  
 Osaki, N. 4272  
 Osanai, M. 7042, 10142  
 Osawa, A. 2690  
 Osawa, N. 2135  
 Osborne, K. H. 8945  
 Osborne, L. 8443  
 Osborne, L. S. 7974  
 Osborne, R. H. 3838  
 Osborne, S. E. 2153  
 Osbourne, P. E. 4800  
 Osella, G. 5088  
 O'Shea, M. 5911  
 O'Shea, T. J. 3381  
 Oshiki, T. 5179  
 Oshima, H. 12067  
 Oshima, T. 4807  
 Oshima, Y. 9625-9626  
 Osibanjo, O. 6882  
 Osipenko, O. N. 6217  
 Oskam, A. J. 4243  
 Osman, K. A. 435  
 Osman, S. F. 5531  
 Osmond, C. B. 11021  
 Osorio, V. M. 1478  
 Osorio, F. 7826  
 Ostaf, D. P. 4740  
 Osteen, G. W. 12028  
 Osteryoung, J. G. 5286  
 Ostiz, S. B. 2385  
 Ostiz, S. de B. 7619  
 Ostrander, D. 10615  
 Osuala, C. I. 7038  
 Osugi, S. 11492  
 Osuna, J. A. 8642  
 Ota, A. Y. 4504-4505  
 Otaishi, M. 2613  
 Otero, L. D. 410, 4896  
 Otero, M. P. Fernández- 6351  
 Othman, K. S. A. 4961  
 Othout, R. A. 3355-3356  
 Otieno, D. O. 10167  
 Otis, G. W. 3790  
 O'Toole, C. 5810  
 O'Tousa, J. E. 8209  
 Otrrosina, W. J. 777  
 Otsuka, H. 9615-9616  
 Otsuki, K. 494  
 Ott, J. R. 9266  
 Ottea, J. A. 716, 2625, 8126, 8506, 10685  
 Ottenheim, M. 1018  
 Ottenheim, M. M. 9259  
 Otto, D. 985, 6111  
 Ottoboni, F. 6879  
 Ou, B. R. 1236  
 Ou-Yang, S. C. 70  
 Ouambama, Z. 7427  
 Oude Lansink, A. G. J. M. 6346  
 Oudejans, R. C. H. M. 5124  
 Oudman, L. 3884  
 Outeiro, A. 10283  
 Ouyang, B. Y. 8819  
 Overholt, W. A. 4397  
 Overton, L. 11534  
 Ovruski, S. 10935  
 Ovruski, S. M. 6201, 11173  
 Ovtshinnikova, O. G. 11123  
 Owen, D. F. 1137, 3032, 3114, 4034, 4095, 4665  
 Owen, J. A. 3632, 3657  
 Owen, M. D. K. 6539, 6902, 10764-10765  
 Owen, R. E. 1948  
 Owiny, A. M. 1137  
 Owusu, E. O. 4535, 5507, 11821  
 Oxford, G. S. 202  
 Oyama, K. 4769, 10981  
 Ozaki, K. 2016, 4743, 8919  
 Özar, A. I. 1486  
 Ozawa, A. 10275, 11955-11957  
 Ozawa, Y. I. 1051  
 Özbek, H. 1149  
 Ozbek, H. 2082  
 Ozburn, G. W. 2301  
 Özcengiz, G. 3266  
 Özden, M. Y. 10656  
 Ozino, O. I. 2169  
 Ozkan, H. E. 6133, 6312  
 Ozoe, Y. 7033  
 Ozretich, R. J. 3377  
 Paasivirta, J. 10969  
 Pascala-Meirelles, L. D. 3263, 8414  
 Pace, R. 1832  
 Pacheco-Covarrubias, J. J. 5298  
 Pacini, A. 2387, 11570, 11733  
 Pack, R. 5410  
 Packauskas, R. J. 9065  
 Packer, L. 1948, 2996  
 Paddock, S. W. 5950  
 Padhee, A. K. 9723  
 Padilla, S. 3350  
 Padmaja, G. 5743  
 Padmaja, M. 170  
 Padmanaban, B. 9891  
 Padmanabhan, P. 7088  
 Paesen, G. C. 8173  
 Pagani, M. 840, 6880  
 Paganini, U. 1617  
 Pagano, G. 5368  
 Pagano, J. J. 9642  
 Page, M. 11234  
 Page, R. E., Jr. 6041, 7353  
 Page, R. K. 2313  
 Pagnocca, F. C. 10285  
 Pagnone, T. C. 3631, 3650  
 Paik, J. C. 301, 1158  
 Paillassou, P. 2101  
 Paine, T. D. 4735, 6753, 6814, 7936, 8260, 8450, 9972, 10023, 11335-11336, 11982  
 Pair, S. D. 2436, 4773, 5150  
 Pais, M. 3339  
 Pait, A. S. 2357  
 Pajeau, M. E. 9713  
 Pajni, H. R. 848, 2731  
 Pajunen, T. 5626  
 Pak, G. A. 208, 4118  
 Pak, H. 10869  
 Pakaluk, J. 7001, 9117  
 Pakeman, R. J. 830, 11031  
 Pakrashi, A. 2295  
 Pal, A. 10229  
 Pal, A. K. 593  
 Pal, R. 6531  
 Pal, R. N. 8789  
 Pala, E. 6329  
 Pala, M. 10878  
 Palacio, V. B. 4098  
 Palacios, M. 3506, 5260, 5260  
 Palacios-Vargas, J. G. 1846, 3759  
 Palaniswami, M. S. 3511, 4483, 11802  
 Palaniswamy, P. 2402, 7770  
 Palazón Miñano, S. 3368  
 Palazari, L. M. 7162  
 Palevitch, D. 3718  
 Palevsky, E. 3537  
 Palis, F. G. 416  
 Paliwal, K. V. 3735  
 Palli, S. R. 8510, 9207, 9554, 11217, 11260, 11684  
 Pallutt, B. 9541  
 Palma, J. L. 8356  
 Palma, J. M. 7275  
 Palmer, C. P. 8442  
 Palmer, M. J. 5000  
 Palmer, R. M. 10320  
 Palmer, W. A. 827, 5721  
 Palmeri, V. 5639  
 Palmisano, A. M. 5674  
 Palokangas, P. 1655  
 Palomino, L. 8709  
 Palos, T. 1554, 10898  
 Palrang, A. T. 8667  
 Palta, R. K. 7563  
 Palumbo, G. 8213  
 Palumbo, J. C. 4516, 4538, 4542, 6596, 9819  
 Pamilo, P. 3185, 8188  
 Pammenter, N. W. 7216  
 Pan, D. Y. 2308, 6169  
 Pan, L. 10848  
 Pan, L. C. 11525  
 Pan, M. H. 3239  
 Pan, M. L. 130  
 Pan, Q. W. 2446  
 Pan, S. Y. 9455  
 Pan, X. F. 241  
 Pan, Y. 3453  
 Pan, Y. C. 10255  
 Panbanged, W. 9465  
 Panchapakesan, K. 102  
 Panchbhavi, K. S. 3446  
 Panda, N. 11586, 11744  
 Panda, P. 11586, 11744  
 Pande, Y. D. 2082  
 Pandey, A. K. 6722  
 Pandey, D. K. 6773  
 Pandey, K. P. 6722, 9927, 10905  
 Pandey, M. B. 1081, 3001, 4980  
 Pandey, N. D. 11800  
 Pandey, R. K. 6573  
 Pandey, R. S. 8744  
 Pandey, S. 7312  
 Pandey, S. D. 2349  
 Pandey, S. N. 11781, 11783  
 Pandey, V. 1480, 11913  
 Pandharipande, T. N. 7455  
 Pandji, C. 6825  
 Pandya, H. V. 1454  
 Paneru, R. B. 809, 10766  
 Pang, A. S. D. 11494  
 Pang, B. P. 3095  
 Pang, G. F. 10331  
 Pang, H. 5789  
 Pang, X. F. 2022, 7491  
 Pangga, I. B. 2464  
 Pangou, E. 5957  
 Panichkrangkrai, W. 2283  
 Panigaj, L. 3642  
 Panigrahi, A. 10402  
 Panizo, C. G. 10585  
 Panizzi, A. R. 557, 5395, 7728, 8644, 10758  
 Pank, F. 6818  
 Pankanin-Franczyk, M. 10703  
 Pannabecker, T. 7070  
 Panneton, B. 7300



Panter, K. L. 7568  
Pantoja, A. 1457, 2470, 2862, 3458, 3470-3472, 3474-3475, 9726, 10737-10739, 11742, 11772, 11959  
Pantuwatana, S. 9465  
Paoletti, M. G. 9843  
Papadaki-Valiraki, A. 3364  
Papadopoulos, A. P. 1524  
Papadopoulos-Mourkidou, E. 2293, 2322  
Papadoulis, G. T. 4858, 5643, 8357  
Papaioannou-Soulitiotis, P. 8623  
Papaj, D. R. 3967, 11311, 11915  
Papanov, G. Y. 2735  
Pape, T. 4047  
Papidze, G. P. 11204  
Papierok, B. 6228, 7866  
Papp, J. 3, 1843  
Pappinen, A. 8910-8911  
Paquet, A. 4309, 8577  
Paquette, L. C. 2760  
Paradell, S. 3439  
Paradice, D. B. 3616  
Paradis, C. 759  
Paradowska, R. 696  
Paraiba, L. C. 2528  
Paisao, A. 280  
Paisao, A. 7427  
Paisao, G. 2513  
Parajulee, M. N. 320, 6068, 8479, 9011  
Parameshwar, N. S. 2461, 7716  
Paranjape, S. Y. 76  
Parashar, B. D. 801  
Parasharya, B. M. 4029  
Pardini, R. S. 9216  
Pardo, M. C. 1901, 2983, 5959, 8159, 8186, 9134, 9258  
Pardo Giménez, A. 3682  
Pardo-Locarno, L. C. 2875  
Paredes, F. R. 11006  
Pareek, B. L. 9820  
Parent-Massin, D. 10569, 10579  
Parenti, P. 2928, 2930, 4204, 9504  
Parentis, A. 6730  
Parfitt, C. H. 5736  
Pario, N. 2977  
Parida, B. B. 2962, 2991, 5007  
Parihar, D. R. 750, 3649  
Pariikka, P. 7834  
Paris, H. S. 5510  
Pariella, R. 11845  
Pariseti, C. C. 9405  
Parish, D. C. 135  
Parish, T. 11351  
Park, C. H. 6701, 10197  
Park, D. 1316  
Park, E. J. 11524  
Park, H. C. 3636, 6964, 7370, 11099, 11464  
Park, H. Y. 6230  
Park, I. J. 11911  
Park, I. S. 6025  
Park, J. D. 6025, 11911  
Park, J. K. 11120  
Park, J. W. 7201, 7533  
Park, J. Y. 8087  
Park, K. C. 11153  
Park, K. H. 7982  
Park, K. T. 6974-6975, 7288, 11119, 11375-11376, 11379  
Park, N. J. 9597, 11595  
Park, S. C. 5672, 7947, 12014  
Park, S. J. 591  
Park, S. S. 6230  
Park, T. S. 2522  
Park, W. J. 8194  
Park, Y. C. 2937, 10195  
Parkash, R. 2973, 3899, 3903-3907, 11175, 11257  
Parkash, S. 11175  
Parker, A. 512  
Parker, B. L. 2674, 3927, 5658, 5841  
Parker, C. 8003  
Parker, G. B. 9713  
Parker, J. K. 5023  
Parker, P. 11819  
Parker, W. E. 3309  
Parkin, T. B. 485  
Parkman, J. P. 4756  
Parks, N. J. 10913  
Parlar, H. 2334, 4072, 4242  
Parlati, M. V. 11930  
Parmar, B. S. 2818, 6301  
Parmesan, C. 8989, 11140, 11327  
Parna De 10402  
Parnell, M. A. 7433  
Parpaola, D. 6880  
Parra, A. 1517  
Parra, J. R. P. 4016, 4076, 4416, 4472, 5420, 7247, 8814  
Parra, L. E. 1806, 5690  
Parrella, M. P. 4659, 4747, 8940, 8942, 9441  
Parrisol, B. R. 9985  
Parrilla, A. 10173  
Parris, R. M. 2383  
Parry, J. 4374, 5266  
Parry, M. 8416  
Parsai, S. K. 3492, 4582  
Parsana, G. J. 11784  
Parsch, J. 8216  
Parsons, D. 4620  
Parsons, P. A. 2011, 11176  
Parthasarathy, R. 83, 107, 976, 4949, 5896  
Parthiban, M. 8935  
Partridge, L. 1869, 2995  
Parvathi, C. 1581  
Parveen, A. 5393  
Parveen, Z. 10217  
Parrvioli, G. 11766  
Pascal, L. 8353  
Pascall, M. A. 6363  
Pascual, A. 6333, 11599  
Pascual, J. A. 10940  
Pascual, L. 5015  
Pashankov, P. P. 1719  
Pashley, D. P. 10685, 11982  
Pasini, A. 7569  
Pasqualetto, C. 2569  
Pasquali, F. 11571  
Pasqualini, E. 7808, 11444, 11853  
Pasquet, A. 5151  
Pasquier, D. 8756, 9862, 11878  
Pass, G. 2873  
Passarelli, A. L. 5005  
Passenheim, A. 7736  
Passera, L. 6017, 6040, 9310  
Passoa, S. 10991  
Pastagia, J. J. 3591  
Pasteels, J. M. 998, 1957, 3188, 3860, 4939, 5058, 5136, 5886, 9413  
Pastergue-Ruiz, I. 7194  
Pasupathy, S. 10557  
Pasyukova, E. G. 2992  
Patel, A. 10364  
Patel, A. D. 2085  
Patel, A. J. 11830  
Patel, A. V. 11389  
Patel, B. K. 11888  
Patel, B. S. 11981  
Patel, C. B. 3591-3592, 5467, 5516, 5563, 5576, 11830, 11838, 11943-11945, 11981  
Patel, C. C. 1327, 11889  
Patel, C. S. 5263  
Patel, D. R. 3592, 11943  
Patel, H. M. 3591  
Patel, I. S. 2496, 5754  
Patel, J. A. 11888  
Patel, J. R. 179, 1327, 5408, 5498, 6677, 8748, 10776, 11339, 11778, 11889  
Patel, K. G. 5563  
Patel, K. P. 9002  
Patel, M. 5938  
Patel, M. B. 3591-3592, 5563, 11830, 11943, 11945  
Patel, M. G. 5408, 11889  
Patel, M. M. 5409  
Patel, M. S. 2986  
Patel, N. C. 6677  
Patel, N. G. 5754  
Patel, N. H. 1012  
Patel, N. M. 1327, 11339  
Patel, P. K. 1579  
Patel, P. N. 2127  
Patel, R. K. 5576  
Patel, S. 7212  
Patel, S. N. 2496, 5754, 8626, 9002  
Patel, V. B. 8626  
Patel, V. J. 5467  
Patel, V. S. 570  
Patel, Z. P. 5563  
Pateron, I. C. 3277  
Patetta, A. 9666  
Pathak, A. 1252  
Pathak, B. 8282  
Pathak, K. A. 8726  
Pathak, M. D. 2829  
Pathirana, C. 7100  
Pathummal Beevi, S. 9649  
Patil, A. D. 349, 1613  
Patil, A. J. 10724  
Patil, A. S. 1613, 1615  
Patil, B. R. 11736  
Patil, B. V. 4650-4652  
Patil, C. S. 4912  
Patil, N. G. 2128, 7348  
Patil, N. M. 12047  
Patil, R. P. 11093  
Patil, S. M. 694, 3015  
Patil, S. P. 9767  
Patil, V. B. 3327  
Patil, V. P. 2628  
Patil, V. T. 8837  
Patifio, S. 4581  
Patnaik, A. K. 346  
Patnaik, H. K. 6377  
Patnaik, H. P. 1310, 1483, 9765  
Patnaik, K. K. 9547  
Patnaik, N. C. 1310, 7712, 7874, 11745  
Patočka, J. 6999, 9102  
Patra, A. 5584  
Patrick, B. 1133, 4464  
Patridge, A. D. 8995  
Patro, B. 211, 1490, 8189  
Päts, P. 5416  
Pats, P. 2889  
Patsakos, P. 8711  
Patterson, C. A. 6543  
Patterson, C. G. 8771  
Patterson, F. 9683  
Patterson, F. L. 4402  
Patterson, H. 1872  
Patterson, T. M. 6628  
Pattnaik, M. R. 593  
Paul, A. 8961  
Paul, E. A. 11651  
Paul, J. 10321  
Paul, N. D. 4784, 11012  
Paul, R. J. 4946-4947, 7010  
Paul, S. R. 839  
Paul, V. 2340  
Paula, A. S. 8854  
Paula, S. V. de 8722  
Pauli, B. 10615  
Pauli, D. 1021, 5962  
Paulian, R. 9101  
Pauli, R. E. 4799  
Pauluhn, J. 8582  
Pauron, D. 5884  
Pavan, F. 6666, 9876, 11854, 11885  
Pavan, G. 6036  
Pavan, O. H. O. 4186, 6238  
Pavel, J. 4294  
Pavičević, D. 8310  
Pavis, C. 4938  
Pavlíček, T. 5012, 10239  
Pavlin, R. 6795  
Pavlov, D. F. 8519  
Pavlova, G. A. 10925  
Pavuk, D. M. 2433, 3493, 10762  
Pawar, A. D. 1095, 1484, 1493, 1520, 5583  
Pawar, A. S. 1396, 7317  
Pawar, K. R. 8527  
Pawar, P. S. 11938  
Pawlik, B. 444  
Pawliszyn, J. 10643  
Pawlyszyn, B. 3039  
Payne, J. A. 5653, 6702, 9857  
Payne, J. F. 1350  
Payne, N. J. 364, 4215, 8929  
Payne, S. G. 2651  
Paz Herráez, M. 7587  
Pazini, W. C. 7846, 8733  
Peach, M. L. 10617  
Peacock, J. W. 11986  
Peairs, F. B. 6449, 7649, 9705, 11725  
Pearce, A. 5867  
Pearce, J. D. 546, 4136, 4405  
Pearce, M. J. 1232, 3760, 7368, 10387  
Peard, J. 2291  
Pearson, B. 9322  
Pearson, D. L. 7271, 10258  
Pearson, D. P. J. 10342  
Pearson, N. 8542  
Pearson, R. 6551  
Peart, T. E. 10568  
Peberdy, J. F. 4065  
Pech, L. L. 104, 7331, 9222  
Pechen de D'Angelo, A. M. 10519, 10590  
Peck, J. Kukalová- 927  
Peck, S. B. 2077, 3928, 4043, 5073, 9370  
Pecora, P. 4787  
Pecsenye, K. 5875-5876, 6003  
Pedata, P. A. 6175  
Pedicord, R. K. 1379  
Pedersen, C. Å. 10060  
Pedersen, H. L. 2560  
Pedersen, J. C. 7435, 7777  
Pedersen, O. C. 2508  
Pederson, G. A. 4461  
Pedibhotla, V. K. 9183  
Pedigo, L. E. 1344  
Pedigo, L. P. 6539, 10764-10765  
Pedrosa-Macedo, J. H. 3629  
Peel, S. 579, 6504  
Peepers, T. F. 10532  
Peeples, K. A. 2252  
Peeters, C. 1192, 2917, 3930, 5128  
Peferoen, M. 2162  
Pegler, D. N. 3181  
Pegoraro, R. A. 4499  
Pehl, L. 8918  
Peifer, M. 157  
Peixoto, A. A. 2975, 10130  
Pelándakis, M. 168  
Pelesova, E. 1481  
Pélissier, B. 7377  
Pell, J. K. 1506, 2195, 5491  
Pellegrini, M. 2969  
Pelletier, Y. 5949, 6553, 7210  
Pellicier, S. 6351  
Pellmyr, O. 2722, 5984  
Pelosi, P. 9199  
Pelosi, R. R. 11896  
Pelutzen, J. G. 9262  
Pemberton, J. M. 2180  
Pemberton, R. W. 204, 3418, 5192  
Peña, A. 4628, 5292, 8463  
Peña, E. A. 11772  
Peña, J. E. 2239, 4105, 4385, 4601, 5561, 11897, 11908  
Peña, M. A. 5156  
Peña-Sánchez, R. 3060  
Penagos, D. I. 1863  
Pender, J. 3068  
Pendland, J. 9480  
Pendland, J. C. 369, 7447  
Pendleton, B. B. 560, 4433  
Pendley, A. F. 4453  
Pener, M. P. 3840, 5941  
Peng, C. 2080  
Peng, C. W. 4621, 8804  
Peng, C. Y. S. 11443  
Peng, G. L. 6788  
Peng, J. C. 5543  
Peng, R. K. 6080, 11921  
Peng, S. 10427  
Peng, Y. F. 7214  
Peng, Z. J. 7373  
Pennacchio, F. 205, 9237



- Penner, D. 10632  
 Penner, P. E. 8514  
 Pennisi, A. M. 8745  
 Penrose, L. J. 2556, 6276  
 Peñuelas, J. 4534, 5508  
 Peppel-Groen, A. E. van de 11676  
 Pepper, T. J. 783  
 Peralta, L. 628  
 Peralta A., L. 9358  
 Perego, C. 9242  
 Perego, R. 9594  
 \* Pereira, A. J. 5965  
 Pereira, F. 936  
 Pereira, J. 6826  
 Pereira, J. L. L. 1485, 8643  
 Pereira, J. M. M. 4694  
 Pereira, R. M. 1190  
 Pereira S., J. 5745  
 Peretto, A. J. 8827  
 Pérez, A. 8796  
 Perez, A. L. 4371, 4376, 4622, 7627  
 Pérez, C. 2298  
 Perez, C. R. 9725  
 Pérez, J. C. F. 933  
 Pérez, J. L. 466, 5345  
 Pérez, M. 982  
 Perez, M. 4957  
 Pérez, P. 1689  
 Pérez-Albarsanz, M. A. 5339, 10619  
 Perez Bravo, P. 1689  
 Pérez Clavijo, M. 6644  
 Pérez Fuentes, J. 933  
 Pérez G., L. E. 10279  
 Pérez García, T. 933  
 Pérez-Lachaud, G. 5062, 11167  
 Pérez Marin, J. L. 9869, 9871  
 Pérez-Peña, J. 9632  
 Pérez S., M. 10441  
 Perez-Zamora, O. 3532  
 Perfecto, I. 2209, 3608, 5134, 11408  
 Perfilova, N. V. 9611  
 Pergher, G. 3162  
 Perić, P. 1539  
 Péricart, J. 2026, 8064, 11090  
 Peridy, O. 1002  
 Perin, M. 8192  
 Périnet, G. 10369  
 Periquet, G. 5008, 5015, 5170, 9135  
 Peris-Cardells, E. 1377  
 Perkins-Weazie, P. 9827  
 Permkam, S. 8315  
 Perna, V. di 2538  
 Pernich, D. J. 8472  
 Perny, B. 10959, 10977  
 Perrault, G. G. 4880  
 Perrimon, N. 4999  
 Perring, T. M. 6595, 6696, 7826, 8948, 11798  
 Perrino, P. 10033  
 Perrins, C. M. 11980  
 Perrior, T. R. 10342  
 Perruso, J. C. 4384, 4586  
 Perry, J. N. 535, 10495  
 Perry, S. D. 2751  
 Perry, T. J. 8296  
 Pershing, J. C. 7514, 9713  
 Persoone, G. 1368  
 Peryea, F. J. 9645  
 Pescador, A. 1854  
 Peschken, D. P. 252, 820  
 Pesenko, Yu. A. 10286  
 Pesquero, M. A. 8363, 11412, 11429  
 Pestemer, W. 2372  
 Pesticides News 6307, 8596  
 Pétal, J. 9415  
 Petanidou, T. 10377  
 Petanović, R. 904, 1531  
 Petek, F. 91  
 Peter, H. 11666  
 Peter, K. V. 3677  
 Peterkin, D. D. 372  
 Peters, A. 2178, 7393, 7405, 7408, 7415, 7830  
 Peters, B. C. 12080  
 Peters, D. C. 4406, 6424, 10723  
 Peters, J. A. 11268  
 Petersen, Æ. 11649  
 Petersen, B. 10424  
 Petersen, C. E. 6141  
 Petersen, G. 5929  
 Petersen, H. 3351  
 Petersen, R. C., Jr. 3081  
 Petersen, W. L. 9713  
 Peterson, A. 11479  
 Peterson, A. M. 11258  
 Peterson, H. G. 7605  
 Peterson, J. A. 1347  
 Peterson, J. K. 4052, 5509  
 Peterson, N. C. 2552  
 Peterson, P. G. 6020  
 Peterson, R. K. D. 2481  
 Peterson, S. M. 3402  
 Petitpierre, E. 8196  
 Pettit, F. L. 4103, 6019, 8746  
 Pettit, M. G. 7144  
 Pettrilli, P. 11195  
 Petró, E. 10998  
 Petrolini, B. 6878  
 Petrov, D. A. 1022  
 Petrović, O. 1157  
 Petrovskii, G. N. 3165  
 Petrusenko, E. A. 6217  
 Pettersen, M. N. 2376  
 Pettersson, J. 4467, 5400, 5406  
 Pettit, F. L. 4518  
 Pettit, M. A. 11872-11873  
 Petty, G. J. 3562  
 Petus, J. 9248  
 Petzel, D. H. 8146  
 Petzinger, G. 9396  
 Peumans, W. J. 8478, 9945, 11564  
 Peynenburg, L. 9259  
 Peypelut, L. 3977, 4060  
 Peyronnet, O. 8505  
 Pezsolesi, L. S. W. 3954  
 Pezzuto, J. M. 3413  
 Pfaff, K. 1423, 7642  
 Pfahler, C. 9192  
 Pfammatter, W. 2547  
 Pfannenstiel, R. S. 7190  
 Pfau, H. K. 3791  
 Pfeffer-Seidl, A. 4946-4947  
 Pfeifer, K. F. 8536  
 Pfeifer, T. A. 8236  
 Pfeiffer, D. G. 6633, 10849  
 Pfeiffer, R. L. 9648  
 Pfeifle, C. 8227  
 Pfeil, E. 9394  
 Pfeil, R. 8582  
 Pfenniger, M. 11471  
 Pfiffner, L. 10385  
 Pfister-Wilhelm, R. 316, 5215  
 Pflieger, P. 5884  
 Pflüger, H. J. 119, 121  
 Phadke, K. G. 1592, 3348, 3587, 5572, 9910  
 Pham, T. 7613  
 Phelan, P. L. 4477, 11728  
 Phelps, K. 9805  
 Philip, G. H. 10572  
 Philipp, P. 4360, 9181, 9652, 11686  
 Philippe, R. 1598  
 Phillips, A. J. 11235  
 Phillips, A. T. 7454  
 Phillips, C. B. 1462, 6267, 6270  
 Phillips, J. B. 1087  
 Phillips, L. 11496  
 Phillips, M. S. 7827  
 Phillips, P. K. 11318  
 Phillips, S. A., Jr. 9214  
 Phillips, T. W. 320, 4255, 6068, 8479, 9011, 10053  
 Phillis, R. W. 5979  
 Philogène, B. J. R. 9151, 11322, 11701  
 Philp, B. W. 6907  
 Phipps, D. J. 3868  
 Phipps, G. L. 1345, 8580, 10653  
 Phogat, B. S. 4517  
 Phoofofo, M. W. 10145  
 Phukam, E. 9884  
 Phundan Singh 9963  
 Phytoparasitica 1790, 2815  
 Pi, S. B. 11973  
 Piao, C. S. 4910, 7806, 8497  
 Piao, W. J. 7671  
 Picanço, M. C. 4530, 8722  
 Picer, M. 4300  
 Picer, N. 4300  
 Pichare, M. M. 10775  
 Pichon, Y. 8505  
 Picimbon, J. F. 8142  
 Pick, D. 8582  
 Pickel, C. 5537, 8772-8773  
 Pickett, C. H. 4659  
 Pickett, J. A. 1394, 1403, 4473, 5400, 7735, 7773  
 Picó, Y. 507, 5734, 11654  
 Picollo de Villar, M. 432  
 Picotti, P. 6666  
 Pearce, G. D. 1785  
 Pieczonka, G. J. 498  
 Piedade-Guerreiro, J. 5766  
 Piek, T. 9175  
 Piekarczyk, J. 2059  
 Piene, H. 772  
 Pierce, H. D., Jr. 4371, 4622, 7627, 9981-9982  
 Pierce, M. L. 2418  
 Pierce, N. E. 6062  
 Pierce, P. A. 6764  
 Pierce, S. 842  
 Piergiovanni, A. R. 10033  
 Pierobom, C. R. 1188  
 Pierozzi, I., Jr. 9147  
 Pierre, J. S. 7654-7655, 8636, 10692  
 Piesman, J. 5975  
 Pieterse, A. H. 8035  
 Pietri, A. 840  
 Pietro, J. P. di 7654, 8636, 10692, 11719  
 Pietrzak, L. N. 9710  
 Pietz, R. I. 3398  
 Pihlaja, K. 4974  
 Pihlava, J. M. 3369  
 Pijnacker, L. P. 1017  
 Pike, E. M. 5076  
 Pike, K. S. 4037, 8368, 9743, 11007  
 Pike, V. 4798  
 Pikounis, B. 11849  
 Pilar Hernández, M. del 2862  
 Pilar Honrubia, M. 7587  
 Pilarska, D. 8411  
 Pilcher, S. D. 9705  
 Pillai, G. B. 1600, 7467, 8453  
 Pillai, K. S. 4483, 11802  
 Pillai, S. R. M. 2679, 2825  
 Pillai, S. V. 2797  
 Pilli, R. A. 1392  
 Pilling, E. D. 5193  
 Pillmoor, J. B. 5276  
 Pillon, O. 1416  
 Pillot, D. 10744  
 Pilsen, D. 6067  
 Pimbert, M. P. 2229  
 Pimenta, H. R. 3647  
 Pimentel, D. 7608  
 Pimpinelli, S. 8213  
 Pin, T. 2152  
 Pineda, A. 10737  
 Pinese, B. 1527, 5773  
 Pinessi, E. 2117  
 Pingali, P. L. 416, 476  
 Pinheiro, A. L. 6769  
 Pink, D. A. C. 9805  
 Pinna, M. 1525  
 Pinner, M. S. 4207  
 Pinn Schmidt, H. O. 7714  
 Pinoggi, G. 4613  
 Pinon, J. 7899  
 Pinshow, B. 3869  
 Pinter, P. J., Jr. 2065  
 Pinto, J. D. 4839  
 Pinto, S. B. 7728  
 Pintureau, B. 3213, 9066, 11453  
 Pinyarat, W. 10394, 11190  
 Pioerecky, J. 2986  
 Piou, D. 3284, 4734, 6780, 7942  
 Pipe, N. D. 8441  
 Piper, G. L. 2750  
 Piper, R. 5773  
 Pique, M. P. R. 4076  
 Pires, C. S. S. 8734  
 Pireva, I. 3700  
 Pirisi, F. M. 5578  
 Piro, F. 11961  
 Piron, P. G. M. 6410, 7081  
 Pirone, T. P. 3286  
 Pirotte, P. 8146  
 Pirrotta, V. 5963  
 Piš, J. 11218, 11223  
 Pisarska, R. 5675, 10931  
 Pitsa, M. J. 3229  
 Pitkin, L. M. 44  
 Pitnick, S. 1864  
 Pitre, H. N. 588  
 Pittara, I. S. 1397  
 Pittarelli, G. W. 8487  
 Pittaway, A. R. 3748  
 Pivnick, K. A. 4619  
 Pla, C. 11279  
 Pla, E. 1002, 1006, 1057, 7036  
 Plaisted, R. L. 6554  
 Planas de Martí, S. 6131  
 Plant, R. A. 11618  
 Plant, R. E. 2075  
 Plantegenest, M. 7655  
 Plapp, F. W., Jr. 5111, 5296, 7547, 9404, 9958-9959  
 Plarre, R. 2771  
 Plastun, I. N. 537  
 Plata, C. 4979  
 Platt, A. P. 3896, 7146  
 Platt, I. 7928  
 Platt, K. A. 11250  
 Plaza Medina, M. 6644  
 Plebani, G. 2108  
 Pless, C. D. 8751  
 Plessis, D. du 4548, 5522-5523  
 Plimmer, J. R. 5275  
 Ploeg, M. van der 1240  
 Plohl, M. 1016  
 Plumb, A. D. 6294  
 Plumb, V. 5743  
 Podgórska, B. 1363  
 Podila, G. K. 8931  
 Podoler, H. 4388, 7256, 7532  
 Podsiadło, E. 4872  
 Podstavková, S. 5349  
 Poehling, H. M. 1423, 7571, 7642-7643, 7662, 8625, 8631-8632, 11722  
 Pohl, H. 10083  
 Pohl, H. W. 938  
 Pohl, M. 2956  
 Pohle, K. 10040-10041  
 Pohlhammer, K. 1858  
 Poinar, G. O., Jr. 10469  
 Poiras, A. A. 10313  
 Poirié, M. 9135  
 Poisson, L. 2101  
 Poitout, S. 6084, 9327  
 Pokharkar, R. N. 5429-5430, 6681  
 Pol, J. J. C. van der 9543  
 Pola, J. N. 10768  
 Polak, J. M. 11210  
 Polak, M. 3055, 6157, 11912  
 Poland, T. M. 769  
 Polaszek, A. 1212, 11111, 11445  
 Polavarapu, S. 2566  
 Polder, A. 8535  
 Polek, B. 1303, 4227-4228  
 Polgár, L. 1559, 2335, 10345  
 Polgár, L. A. 8367, 10998  
 Polhemus, D. A. 2044  
 Policello, G. A. 429  
 Polito, L. C. 4995, 11243  
 Polk, D. F. 5530  
 Polkowski, M. 3009  
 Poll, J. T. K. 623  
 Pollack, A. J. 3391  
 Pollack, G. S. 1899  
 Pollard, E. 244, 6092  
 Pollard, G. V. 2128  
 Pollard, J. E. 5538, 7832, 7835  
 Pollard, S. D. 2137  
 Pollet, D. K. 2719  
 Pollini, A. 7809  
 Pollitt, S. 7830  
 Pollock, D. A. 4821



Pollock, K. M. 1787  
Polston, J. E. 3282, 11024  
Polyhos, C. 8547  
Pomerinke, M. A. 8988  
Pomeroy, M. 3861  
Pomorska, K. 11397  
Pompanon, F. 3211  
Pompi, V. 11930  
Ponce, M. P. Rodríguez- 8433  
Ponce de Leon, M. 2080  
Ponce de Leon, R. 4782  
Ponder, J. W. 10353  
Ponge, J. F. 3083  
Pons, X. 7670, 11713  
Ponsonby, D. J. 11790  
Poole, K. R. 4965-4967, 9221  
Poole, R. W. 6972  
Poomalai Pugalenth 7235  
Pope, C. N. 3350, 4316  
Pope, R. D. 5817  
Popescu-Gorj, A. 1836  
Pophaly, D. J. 6501  
Popham, H. J. R. 3823  
Popov, A. V. 5026  
Popov, G. B. 918  
Popov, V. I. 10122  
Popović, M. 8310  
Poppy, G. M. 5061  
Poprawski, T. J. 302, 563, 604, 6221  
Popushoi, I. 7397  
Poras, M. 9494  
Porath, J. 5946  
Porcelli, F. 10507  
Porcheron, P. 2898, 4963, 6120  
Porta, P. la 434, 4258  
Porter, A. 5718  
Porter, A. H. 7147  
Porter, D. R. 2415, 2418, 3443, 9686-9687  
Porter, M. 6392  
Porter, N. 5277  
Porter, R. P. 588  
Porter, S. D. 4028, 5141, 11388, 11412, 11429  
Porter, W. P. 3375  
Portillo, H. E. 588  
Pörtner, H. O. 4947  
Posada F., F. J. 2594, 7391  
Posakony, J. W. 4985  
Posenato, G. 8775  
Posla F., M. 9074  
Posla-Fuentes, M. 3795  
Possee, R. D. 4169, 5228, 8439  
Post, R. J. 8330  
Postali Parra, J. R. 9324  
Posthumus, M. A. 4354-4355, 5490, 6582, 9696, 11810  
Postner, M. A. 4909  
Poswal, M. 3485  
Poswal, M. A. T. 9003  
Potenza, M. R. 7529, 8786  
Potineni, K. 5557  
Potter, D. A. 2725, 6808, 7969, 10747  
Potter, M. A. 6266  
Potter, T. L. 3149  
Pottinger, R. P. 5444  
Potvin, M. A. 8975  
Poudevigne, D. 10416  
Pouleu, S. 8997  
Poulicek, M. 946  
Poulsen, M. E. 9631  
Poulter, N. H. 843  
Poustka, J. 11712  
Poutsma, J. 2644  
Pouzat, J. 5742, 7057  
Poveda, L. 11701  
Povolný, D. 4294  
Powar, S. L. 6301  
Powell, C. A. 5510, 11825  
Powell, D. F. 5  
Powell, G. 7773  
Powell, G. L. 6783  
Powell, K. S. 2232, 2621, 5269, 8478, 8614, 9945  
Powell, R. J. 1746  
Powell, S. 9640  
Powell, W. 3227, 7652, 9335  
Powelson, M. L. 11076  
Power, A. G. 6264, 8641  
Power, J. F. 6250  
Power, J. M. 5253  
Powers, E. 6002  
Powers, J. A. 1931  
Powers, P. J. 9832  
Powles, S. B. 3386  
Pozo, C. 503, 6382  
Prabhakar, J. D. 6235  
Prabhakaran, S. K. 9165  
Prabhanjan, D. G. 8017  
Prachar, V. 11628  
Prada, P. C. 5461  
Pradeau, D. 7983  
Pradelles, P. 6120  
Pradhanang, P. M. 5472  
Prado, A. P. 2858, 3994  
Prado, E. 544  
Prado, M. A. 11210  
Prądyńska, A. 3699  
Prakasan, C. B. 3603  
Prakash, A. 9732  
Prakash, S. 11658  
Pralavorio, M. 11596  
Pralya, I. I. 2559  
Pramanik, A. 5552  
Pramauro, E. 1377  
Prando, H. F. 7695  
Prange, H. D. 3869  
Prapaipong, H. 9158, 11249  
Prasad, A. B. 2312  
Prasad, A. R. 4369, 11584  
Prasad, B. 6215, 10312  
Prasad, C. S. 11709  
Prasad, D. 3734  
Prasad, G. 11620  
Prasad, G. S. V. 1452  
Prasad, H. H. 9261  
Prasad, K. G. 6332  
Prasad, M. 11366  
Prasad, R. 6378, 7312  
Prasad, R. K. 10160  
Prasad, R. T. 6624  
Prasad, S. K. 1502  
Prasad, S. V. 5995  
Prasad, V. D. 5297, 6624, 6731, 7550  
Prasad, V. V. S. 10582  
Prasad, Y. G. 8697  
Prasad Kumar 7008  
Prasanth Mohanraj 9922  
Prasse, J. 10040-10041  
Prasuna, A. L. 4369, 6028, 11584  
Prat, M. I. 3385  
Prathapan, K. D. 9880  
Pratt, G. E. 9520  
Pratt, G. F. 2866  
Pratt, K. F. 10643  
Pratt, S. C. 3183  
Pratt, T. L. 1702  
Pree, D. J. 4560, 6660  
Preez, R. du 6690  
Preez, R. J. du 799  
Preisler, H. 9583  
Preisler, H. K. 8496, 10506  
Preiss, R. 5047  
Prem Dureja 10646  
Prem Kishore 7693  
Premkumar, T. 5743, 6566, 11802  
Prendergast, B. F. 10941  
Prendergast, J. R. 6101  
Prenerová, E. 4180, 9492  
Presnail, J. K. 4099  
Press, M. C. 1995  
Prestidge, R. A. 6509-6510, 6513-6514  
Preston, C. 3386  
Preston, W. B. 2034  
Prestwich, G. D. 991, 3153, 3854, 5188, 5931, 9208, 11217  
Preszler, R. W. 4737  
Preti, F. 3155  
Pretorius, W. L. 8725  
Prétot, C. 423  
Prevosti, A. 8223  
Prew, R. D. 7652  
Pribela, A. 11628  
Price, B. D. 6885, 7136  
Price, J. 11867  
Price, J. F. 2716, 11868  
Price, N. S. 6676, 9881  
Price, P. 10648, 11675  
Price, P. W. 2668, 2727, 4703-4704, 7922, 9998, 11995  
Prier, K. R. 5906  
Prieto, J. C. 5339  
Prijono, D. 1503  
Primavera, M. 11684  
Primio, R. di 1255  
Primo, J. 4284  
Principato, G. B. 5893  
Pringle, A. 1058  
Pringle, K. L. 5511, 8763-8764, 11841  
Prins, A. H. 2748  
Prinsloo, G. L. 3217, 7283, 8054  
Prior, C. 280, 3257, 5225, 7427, 9527, 10446  
Prior, D. A. M. 6593  
Priore, R. 2562  
Priore, V. 11931  
Pritchard, D. W. 6130  
Pritzl, G. 7264  
Privitera, R. 931  
Priyadarsana, D. R. 9097  
Proctor, J. 4112  
Proffitt, J. R. 333, 2217, 6507  
Prognon, P. 7983  
Prokop, A. 7131  
Prokopy, R. J. 399, 516, 879, 977, 3844, 4556, 5374, 5655, 6636, 6641, 7817, 9569, 9832, 9841  
Prokrym, D. R. 4041  
Proksch, P. 2249, 2740, 3413, 4970, 5382, 6825, 8610  
Proost, P. 5124  
Prosen, H. 7599  
Proshold, F. I. 11165  
Prota, R. 5645  
Prota, U. 9873  
Prota, V. A. 9873  
Protic, L. 11842  
Proud, C. G. 2941  
Prout, T. 7092  
Proux, J. 10178  
Proveaux, A. T. 7893  
Provost, E. 7028  
Prpić, B. 7915  
Prudhomme, J. C. 4989  
Prueger, J. H. 9648  
Pruner, M. S. 11039  
Prusak, Z. 6093  
Pruszyński, S. 1286, 2804, 5769  
Przybylski, Z. 1284, 2006, 2380, 3421, 8471  
Pu, F. H. 11768  
Pu, Y. L. 1593  
Pu, Z. L. 8430  
Pua, D. R. 11906  
Pueyo, J. J. 2777, 9163  
Pugalenth, P. 7235  
Pugh, P. J. A. 6089, 7266  
Puig, H. 2303  
Puiroux, J. 7018  
Pulawski, W. J. 6986  
Pulford, W. M. 4600  
Pulgarín, M. 2501  
Pulido, J. I. 3565  
Pullen, K. R. 5721  
Pullin, A. S. 8392  
Pulman, D. A. 10343  
Pülschen, L. 10665  
Pundir, S. R. 6592  
Punit Mohan 9963  
Punttila, P. 5626  
Punzo, F. 3063, 9314, 10203  
Purcell, A. H. 4208, 7838  
Purcell, J. P. 7514  
Purcell, M. F. 3226, 4109, 7521, 8795, 8981, 12057  
Purdum, P. W. 895  
Puri, G. 2349  
Puri, M. K. 10726  
Puri, S. N. 5153, 11925, 11938, 11972  
Purohit, M. S. 1454, 11971  
Purrington, F. F. 12019  
Purvis, E. L. 2197  
Pusey, B. J. 11617  
Pushpalatha, N. A. 9917  
Pusino, A. 8808  
Pusztai-Carey, M. 2160, 9515  
Putatunda, B. N. 4790  
Putterka, G. J. 10019, 10723  
Putov, V. E. 414  
Puttaraju, H. P. 5189, 5847  
Puttaswamy 8381  
Puttler, B. 72  
Puyvelde, L. van 4479  
Puzari, K. C. 5226  
Pyarelal 2665  
Pye, B. J. 4473, 5400, 7466  
Pyle, R. M. 9354  
Qader, M. A. 3240, 3244  
Qaisra, F. 3685  
Qamar, A. 5303, 11604  
Qi, B. Y. 10314  
Qi, G. R. 359  
Qi, J. Q. 8659  
Qi, J. X. 9848  
Qi, M. L. 7635  
Qi, S. L. 7254  
Qi, Y. K. 10669  
Qian, C. F. 367, 385, 11522  
Qian, D. H. 11768  
Qian, Q. 10504  
Qian, S. 5963  
Qian, Y. X. 9637  
Qian, Y. Z. 9735  
Qiao, L. Q. 11975  
Qiao, L. Y. 559  
Qin, H. G. 2447, 9731  
Qin, J. C. 7109, 7465  
Qin, J. D. 9046  
Qin, T. K. 3741, 5800, 9053, 11405  
Qin, W. Q. 10733  
Qin, W. S. 10733  
Qin, X. R. 9966, 10006  
Qin, Y. C. 9840  
Qin, Y. L. 10472  
Qiu, G. 10743  
Qiu, J. Y. 9519  
Qiu, M. S. 10396  
Qiu, P. 7109, 7465  
Qiu, Q. R. 7509  
Qiu, T. D. 8793  
Qiu, X. H. 8675  
Qiu, Y. T. 6394  
Qu, H. S. 7711  
Qu, L. F. 10476  
Qu, X. F. 7261  
Qu, Y. W. 11738  
Quadt, R. 11516  
Quaglia, M. 10207  
Quang, D. le 10261  
Quarles, W. 3664, 4091, 4584  
Quaroni, S. 6878  
Quattro, J. de 6164  
Quattrochi, L. C. 11656  
Quednau, F. W. 5799  
Queiroz, M. V. 7840  
Queiroz, M. V. B. 701, 9118  
Quémerais, B. 4333  
Quennedey, A. 5854  
Quentin, U. 11817  
Quere, J. L. le 766  
Quert, R. 1402  
Quesada, M. 6619  
Quesada-Allué, L. A. 5852, 8172  
Quesneville, H. 1952  
Quezada-Dí, J. E. 8187  
Quick, J. S. 6449  
Quicke, D. L. J. 1800, 3793, 4112, 4855, 5172, 6989, 10115, 11131  
Quijije, R. 7528  
Quilici, S. 5374, 10308  
Quincoces de Guerra, V. 9754  
Quinderé, M. A. W. 7745  
Quinet, Y. 9413  
Quinlan, M. C. 2943, 7110  
Quinn, M. A. 9742, 11777  
Quinn, N. M. 3710  
Quinsey, P. M. 10566  
Quintela, E. D. 7449, 7745  
Quiot, J. M. 3339, 4200  
Quiring, D. J. M. 2240, 8740



- Quiring, D. T. 591, 775-776, 4739-4740, 6798  
 Quiring, R. 2979  
 Quiroz, A. 5400  
 Quisenberry, S. S. 1289, 1291, 1458, 2465, 6483, 8635, 11737  
 Quistad, G. B. 7347, 10498  
 Qureshi, S. A. 11000  
 Qureshi, Z. A. 3619, 6887  
 Quris, R. 74  
 Quyen Nguyen 7347  
 Quynh, H. T. 2386  
 Raap, A. K. 1240  
 Raatikainen, M. 11727  
 Raatikainen, T. 11727  
 Rabaglia, R. J. 3126  
 Rabasse, J. M. 60, 878, 8366  
 Rabeni, C. F. 11626  
 Rabenstein, F. 7474  
 Rabindra, R. J. 374, 710, 2184, 2404, 3411, 5230, 7638, 7892  
 Rabinovitch, L. 4164  
 Rabitsch, W. 1307  
 Raboni, F. 2212  
 Raccab, B. 1260  
 Racette, G. 4549  
 Rach, J. J. 1343  
 Racheli, T. 9110  
 Rachman, L. M. 5364  
 Rachna Kohli 852  
 Racin, G. E. 1641  
 Racke, K. D. 9641  
 Radadia, G. G. 5516, 11838  
 Radallah, D. 5903, 9185, 9217  
 Radchenko, A. 5099  
 Radchenko, V. G. 10286  
 Radcliffe, E. B. 4460, 9778, 10787  
 Raddy, K. D. 9718  
 Radesäter, T. 1999  
 Radev, V. 8404  
 Radford, K. M. 6250  
 Radhakrishnan, B. 3132, 7882, 8824, 10909  
 Radhakrishnan, S. 11620  
 Radhakrishnan, T. 7872  
 Radicati, L. 2809  
 Radin, A. M. 4540-4541  
 Radin, J. W. 706, 10913  
 Radke, C. D. 8609  
 Radulescu, M. 9846  
 Radwan, H. S. A. 9771  
 Radwan, J. 9140  
 Radwan, M. A. 435, 8566  
 Rady, A. A. 8547  
 Rae, D. J. 2604  
 Rae, J. E. 512  
 Raetano, C. G. 9811  
 Rafaeli, A. 100, 969, 3825, 8140, 11214  
 Rafanomezantsoa-Ran-driambololona, B. N. 6228  
 Rafendran, R. 10894  
 Raffa, K. F. 3643, 4701, 7953-7954, 8912, 10966, 12001, 12010  
 Rafferty, D. E. 9642  
 Rafn, K. 5945  
 Raftery, L. A. 9250  
 Rafudien, S. 8544  
 Raga, A. 7529, 8786, 8792  
 Ragaie, M. 11765  
 Raghavan, G. S. V. 8017  
 Raghavendra Gadagkar 2867  
 Raghunathan, R. 6403  
 Ragozzino, A. 3521  
 Ragsdale, D. W. 9482, 10787  
 Raguchi, R. 11177  
 Raguraman, S. 2277  
 Ragusa, S. 8623  
 Ragusa di Chiara, S. 8623  
 Raha, P. 5284  
 Raha, R. 4327  
 Rahamathulla, V. K. 8251  
 Rahani, M. 6488  
 Rahardja, U. 9567  
 Rahardjo, A. W. B. 1662  
 Rahbé, Y. 609, 4498, 11564, 11566  
 Rahimi, F. R. 377  
 Rahman, I. 5093  
 Rahman, M. A. 2616  
 Rahman, M. F. 4301, 5830  
 Rahman, M. H. 5177  
 Rahman, M. M. 3245  
 Rahman, M. S. 471, 6344  
 Rahman, S. M. 5194  
 Rahmouni, A. 6555  
 Rai, A. B. 5467, 11830, 11838  
 Rai, B. 9806  
 Rai, H. S. 11894  
 Rai, M. M. 8412, 11300  
 Rai, P. S. 4615  
 Rai, R. 9895  
 Rai, S. 8616, 8729, 11811  
 Rai, U. P. 4303  
 Rai Singh 11811  
 Raibaud, A. 1040  
 Raičević, M. 1680  
 Raikes, C. 10988-10989  
 Raina, A. K. 100, 131, 1100, 2922, 3830, 7056, 9236, 11201  
 Raina, R. 10774  
 Raina, S. K. 8412  
 Raineri, V. 2028  
 Raise, G. 2699  
 Raitio, H. 10969  
 Raizada, R. B. 3365  
 Raj, B. T. 3503  
 Raj, D. 1202, 2120, 2590, 7236, 7774  
 Raj, M. F. 11888  
 Raj, T. P. 5704  
 Rajagopal, D. 5475, 7008, 7227, 7989  
 Rajagopal, R. 9638  
 Rajamanickam, K. 688, 3583, 11939  
 Rajamma, P. 843, 4483, 6566, 11802  
 Rajamohan, F. 3276  
 Rajan, K. 5024-5025  
 Rajan, R. K. 9325, 10395  
 Rajan, S. S. 6403, 8484  
 Rajanna, K. L. 5189, 10159  
 Rajapakse, C. N. K. 11028  
 Rajashekhar, K. P. 122  
 Rajavel, D. S. 3711  
 Rajendra Singh 10886  
 Rajendran, B. 570  
 Rajendran, S. 1331, 8019  
 Rajeshwary, H. 10140  
 Rajgopalan, B. 1365  
 Rajni Modgil 9014  
 Rajput, R. L. 9736  
 Raju, M. 2734  
 Raju, R. V. P. 10332  
 Raju, S. V. S. 3070  
 Rajwant Singh 4440  
 Rakotonandrasana, A. 7324  
 Rakotonandrasana, M. A. 5709  
 Raković, M. 6982  
 Ralchev, K. H. 9161  
 Raleigh, E. L. 10146  
 Rali, T. 3247  
 Ralston, B. E. 4766  
 Ram, J. 328  
 Ram, N. 1484  
 Ram, P. 9417  
 Ram, S. 8726, 9533  
 Ram Kishore 5730  
 Ram Ratan 9963  
 Ram Singh 5499, 10056  
 Ramachandra, N. B. 4873  
 Ramachandran, T. K. 3582  
 Ramadan, M. M. 1216, 2887, 9434  
 Ramade, F. 2342  
 Ramaiah, K. V. 7685  
 Ramakrishnan, N. 8555, 9473  
 Ramakrishnan, V. 6405  
 Ramakumar, M. V. 8017  
 Ramalho, F. de S. 2639  
 Ramalho, F. S. 5603, 5606  
 Ramalho Neto, C. E. 2431  
 Ramalingam, J. 3711  
 Ramamoorthy, K. 3617  
 Ramamurthi, R. 10572, 10582  
 Ramamurthy, M. S. 6891  
 Raman, A. 10069  
 Raman, K. V. 3506, 4487, 5260, 5260, 11076  
 Ramani, S. 3600  
 Ramanjaneyulu, Y. V. 7375-7376  
 Ramans, M. 11065-11066  
 Ramasastry, P. 9595  
 Ramasubbarao, V. 4596  
 Ramaswamy, G. N. 2081, 4232  
 Ramaswamy, S. 9982  
 Ramaswamy, S. B. 970, 5837, 9019, 9172  
 Rambabu, J. P. 5321  
 Rambabu, L. 6731  
 Ramberg, A. 9398  
 Ramdevputra, M. V. 1579  
 Ramesh, A. 2347  
 Ramesh, P. 2460, 4785, 8335, 8656, 8811, 8979  
 Ramesh Ayyappath 10618  
 Ramesh Babu, M. 8401  
 Ramesh Chandra 5819  
 Ramirez, J. M. 7067  
 Ramírez, M. B. 8521  
 Ramírez, O. A. 9937  
 Ramírez A., A. 1108  
 Ramírez B., W. 9430  
 Ramirez de López, M. B. 10822  
 Ramírez-Martínez, M. 7932  
 Ramírez-Zurbia, R. 7932  
 Ramkema, M. D. 135, 2152  
 Ramlah, S. A. A. 6708  
 Ramlee, M. 6708  
 Ramos, C. 7472, 11461  
 Ramos, F. A. 3014  
 Ramos, J. L. 7472  
 Ramousse, R. 6167  
 Ramsell, J. 7722  
 Ramsey, M. D. 1527  
 Ramulu, S. S. 5752  
 Rana, D. K. 6501  
 Rana, G. L. 10824  
 Rana, Z. A. 11949  
 Ranalli, P. 6550  
 Ranasinghe, M. A. S. K. 1489  
 Rand, D. M. 2951  
 Randall, J. M. 2754  
 Randhawa, K. S. 6569  
 Ranganath, H. A. 4873, 10228  
 Ranganath, H. R. 11887  
 Ranganathan, L. S. 7088  
 Ranganayakulu, G. 5958  
 Rangarajan, A. V. 6889  
 Ranger, S. 9835  
 Rangus, T. M. 7554  
 Rani, B. E. A. 1373  
 Rani, P. 3820  
 Rani, P. U. 5831  
 Ranjan, A. 7128  
 Rankin, L. J. 7951  
 Rankin, M. A. 5617  
 Rantio, T. 10969  
 Rao, B. N. 6474, 6476, 9768, 9773  
 Rao, C. G. P. 346  
 Rao, C. S. 8811  
 Rao, D. V. S. 6474  
 Rao, E. V. V. B. 5763  
 Rao, G. A. 7631  
 Rao, G. S. 178, 2147, 3243, 11469  
 Rao, G. V. 8539  
 Rao, G. V. R. 6870  
 Rao, J. 9732  
 Rao, K. B. 4615  
 Rao, K. J. 5314  
 Rao, K. M. 801, 4791  
 Rao, K. P. 6476, 9768  
 Rao, K. P. C. 7678  
 Rao, K. S. J. 8539  
 Rao, K. V. S. N. 9860  
 Rao, L. J. M. 6826  
 Rao, M. B. 5321  
 Rao, M. S. 5340  
 Rao, P. J. 8477  
 Rao, P. K. 9815, 9908, 10015  
 Rao, P. S. 2460, 4316  
 Rao, P. S. P. 6500  
 Rao, P. U. 4131  
 Rao, R. S. 7550  
 Rao, R. V. 6665  
 Rao, R. V. S. 5956  
 Rao, S. J. 9815  
 Rao, S. R. V. 170  
 Rao, V. N. 8983  
 Rao, V. R. 7741  
 Raodeo, A. K. 1408  
 Rapp, G. 9915, 10899  
 Rappaport, N. G. 7961  
 Rapus, J. 121  
 Rasa, O. A. E. 7726  
 Rashbrook, V. K. 672  
 Rashed, F. F. M. 11876  
 Raskin, R. 1223  
 Rasmussen, C. 4906  
 Rasmy, A. H. 206  
 Rasoloarison, B. 8665  
 Rasplus, J. Y. 5171  
 Rassmann, W. 2771  
 Rassmus, S. 7602  
 Rassoulain, G. R. 3505  
 Rastegayeva, V. M. 4359  
 Ratajczyk, G. 2400  
 Ratan, R. 9963  
 Ratanpara, H. C. 5498, 11339, 11965  
 Rataul, H. S. 8728  
 Ratcliffe, B. C. 2850  
 Ratcliffe, N. A. 961  
 Ratcliffe, R. 9683  
 Ratcliffe, R. H. 4402, 7723  
 Ratford, J. 8546  
 Rath, A. C. 4140, 4152, 7469, 10432, 10436  
 Rath, L. K. 1483, 9765  
 Rath, R. 84  
 Rath, W. 8360  
 Ratheke, B. 3608  
 Rathman, R. J. 9612  
 Rathmayer, W. 8149  
 Rathore, H. S. 1312  
 Rathore, N. S. 726, 11465  
 Ratnadass, A. 4434  
 Rattan, P. S. 699  
 Rattnar, B. A. 8540  
 Ratuszniak, E. 2499  
 Raubenheimer, D. 3870, 3972, 9281  
 Raucis, G. 8355  
 Raulston, J. R. 1096, 2436, 5070, 6720, 8650, 9138, 9702, 9925-9926  
 Raupp, M. J. 2675, 8944  
 Rauschenbach, I. Y. 5870  
 Rauschenbach, N. Y. 8124  
 Rauschenbach, I. Yu. 994  
 Rausher, M. D. 1740, 6067, 8098  
 Raut, S. B. 9764, 11779  
 Ravaoli, M. 11853  
 Raveendran, T. S. 3583  
 Ravelo, A. G. 4763  
 Ravensberg, J. C. 4270  
 Ravensberg, W. J. 7429  
 Ravi, K. S. 690  
 Ravi, U. 6870  
 Ravi Kumar, G. 10140  
 Ravindra Singh 7017  
 Raviprasad, T. N. 1521  
 Ravishankar, G. A. 6128  
 Ravlin, F. W. 1656, 4224-4225, 5845, 9970  
 Rawat, A. K. S. 6819  
 Rawat, U. S. 1095, 1520  
 Rawat, V. K. 1543  
 Raworth, D. A. 4061, 9852  
 Ray, A. 1729, 2295  
 Ray, C. 3697  
 Ray, D. 3089  
 Ray, R. 5737  
 Ray, R. C. 11053  
 Raybould, A. F. 9322  
 Rayment, I. 10181  
 Raymer, P. L. 4618, 9670, 9753, 11922  
 Rayne, R. C. 5911  
 Rayner, M. 9868  
 Razin, S. V. 10214  
 Razniak, H. 6079  
 Razowski, J. 3108, 6955  
 Re, A. A. M. del 566  
 Reach, M. 1005



Read, A. F. 8235  
Read, M. P. 4960  
Readman, J. W. 3389  
Reagan, J. D. 7095  
Real, A. A. del 5503  
Real, B. 510  
Real, L. A. 6264  
Real, M. D. 4172, 6248  
Reardon, R. 4210  
Reardon, R. C. 10941  
Reaves, L. L. 10913  
Rebay, I. 7139  
Rebeiz, C. A. 3296, 4275, 11603  
Rebeiz, C. C. 4275, 11603  
Rebeles-Manriquez, A. 3060  
Rebollo, R. 6290, 6292  
Rechmany, N. 3426  
Recio, M. N. 5339, 10619  
Redak, R. A. 4454, 8450, 10023, 10997, 11336  
Reddersen, J. 11715  
Reddi, C. S. 5684  
Reddy, A. 5436  
Reddy, A. N. 11635  
Reddy, D. D. R. 561, 7631, 7691, 8654  
Reddy, D. K. 3241  
Reddy, D. S. 2341  
Reddy, D. V. R. 10067  
Reddy, G. P. V. 5297, 6624, 6731, 7550, 10037-10038  
Reddy, K. D. 561, 3242, 8654, 10160  
Reddy, K. N. 6476, 9768, 9773  
Reddy, K. V. R. 103  
Reddy, K. V. S. 5417, 7841, 10874  
Reddy, L. M. 7741  
Reddy, M. S. 5355  
Reddy, M. V. 7678  
Reddy, P. M. 10572, 10607  
Reddy, P. S. 4295, 11616  
Reddy, S. L. N. 2341, 11635  
Reddy, S. N. 340  
Reddy, T. B. 5684  
Reddy, V. K. R. 656  
Reddy, V. N. 2460  
Reddy, V. S. 2193  
Reddy, Y. V. R. 4435, 7691  
Redetzke, K. A. 8538  
Redfern, M. 1134  
Redfern, R. E. 10537  
Redkozubov, A. 9198  
Redlinger, L. M. 12069  
Redondo, M. J. 507, 2365  
Reeck, G. R. 9163  
Reed, D. K. 1218, 4401, 4510, 6183, 6428, 8289, 9674, 11725  
Reed, H. C. 4401, 9674, 10172  
Reed, J. T. 7298  
Reedy, M. C. 7117  
Rees, B. E. 3777  
Rees, H. H. 4350, 5867, 8165, 9202  
Reese, J. C. 1451, 4395  
Reeve, H. K. 7118, 8252, 10260  
Reeve, J. D. 247, 4777, 5165, 8788  
Reeves, J., III 10004, 10978  
Reeves, R. M. 8067, 9392  
Refatti, E. 10868  
Regan, S. A. 5887  
Regas, J. L. 590  
Reggiori, F. 434  
Regier, J. C. 8217  
Regnault-Roger, C. 5692, 12066  
Régnière, J. 5845, 6108, 10278  
Regupathy, A. 598-599, 2542, 10557  
Reguzzi, M. C. 9444  
Reháková, M. 10503  
Rehheim, E. Abdel- 1349  
Rehner, S. A. 10361  
Reibnitz, C. von 10934  
Reich, B. J. 9713  
Reichard, D. L. 6133, 6136, 6312  
Reichert, S. 11717  
Reichhart, J. M. 7142  
Reichmuth, C. 1770, 5757, 12069  
Reid, A. P. 8406  
Reid, J. C. 2497  
Reid, L. A. 9246  
Reid, M. 3656  
Reid, M. L. 767  
Reid, S. 6250  
Reid, S. J. 9160  
Reid, W. 2122  
Reiderné, S. K. 7978  
Reiersen, D. A. 6893  
Reig, O. A. 10237  
Reijden, E. D. van der 5717  
Reilly, L. M. 6231  
Reimer, G. J. 9646  
Reina, M. 804, 8611  
Reinecke, A. J. 10613  
Reinecke, S. A. 10613  
Reinert, D. J. 7246  
Reinert, K. A. 10524  
Reinhard, C. 5236  
Reinhold, K. 2891  
Reinink, K. 9808  
Reis, O. V. dos 2431  
Reisch, G. 1720  
Reisch, J. 1720, 6823  
Reissig, W. H. 1302, 4551, 4553, 6648  
Reissinger, M. 4347, 10968  
Reiter, R. J. 11632  
Reitsma, N. 238  
Reitz, S. R. 9442  
Remadevi, O. K. 9384  
Remane, R. 1637, 5390  
Remaudière, G. 6840, 9668  
Rembeza, J. 2499  
Rembold, H. 142, 7093, 11679  
Remes Lenicov, A. M. M. de 3439  
Remillet, M. 2188  
Rémond, F. 9938  
Remondetto, G. E. 2165  
Remund, U. 4576  
Ren, C. G. 3177, 3495  
Ren, H. B. 9830  
Ren, H. F. 2201  
Ren, J. Z. 1786  
Ren, P. 3097  
Ren, S. X. 7851  
Renand, M. 2138  
Renault, S. 5170  
Rendleman, C. M. 10524  
Renou, A. 8704  
Renou, M. 7059  
Rensburg, G. D. J. van 3445  
Rensburg, J. B. J. van 4632-4633, 6714, 7871, 8810  
Rentner, J. 8940  
Rentz, D. C. F. 1802  
Renucci, M. 9205  
Renwick, J. A. A. 605, 1304, 4507, 5050, 7518, 8609, 10012  
Repetto, M. 4231  
Repka, V. 5942  
Resende, L. C. L. 8814  
Resende, M. L. V. de 8806  
Restifo, L. L. 11242, 11252  
Retana, J. 207, 11313, 11416  
Rethinam, P. 3678  
Retnakaran, A. 8510, 9207, 9554, 11684  
Retzlaff, W. A. 4226, 6655  
Reus, J. A. W. A. 10475  
Reust, W. 600  
Reuter, K. C. 5261, 9742  
Reuter, R. 11239  
Reuveni, H. 3537  
Reuveni, M. 9167  
Reuveni, R. 12100  
Revanasiddaiah, H. M. 10159  
Revanna, H. P. 3459, 10735  
Revilla, P. 9707  
Revina, L. P. 11517  
Revue Horticole Suisse 11557  
Rexilius, L. 5341  
Rey, L. 3780  
Reyes, A. 11268  
Reyes, C. P. 6977, 11743  
Reyes, F. J. 4516  
Reyes, M. 251  
Reyes-Castillo, P. 3774  
Reyes-Chilpa, R. 9978  
Reymonet, C. 3201  
Reynaud, B. 10308  
Reynolds, D. R. 4444  
Reynolds, J. 8592  
Reynolds, K. 7813  
Reynolds, K. M. 2707, 8897  
Reynolds, S. E. 7071, 11198  
Rezende, M. A. A. 7677  
Rezende, M. O. O. 7611  
Reznik, S. Y. 5255  
Reznik, S. Ya. 6073  
Rezsöhazi, R. 5210  
Rhainds, M. 683, 4622, 7058  
Rheinheimer, J. 2031  
Rhoads, F. M. 4468  
Rhodes, L. F. 2618  
Rhodes, L. H. 863  
Rhouma, A. 9900  
Riba, G. 4161, 4195, 4200  
Riba, M. 7634  
Ribeiro, C. 3279  
Ribeiro, H. C. T. 1256, 4186, 6238  
Ribeiro, J. D. 9118  
Ribeiro, O. B. 3994  
Ribeiro, S. P. 3647, 11340  
Ribes, A. 6664  
Rice, M. E. 11983  
Rice, P. J. 6314, 6320  
Rice, R. E. 9703  
Rice, W. C. 8508  
Richard, C. 8997  
Richards, D. C. 4479  
Richards, J. H. 6503  
Richardson, C. D. 7445, 9033  
Richardson, P. E. 6443  
Richardson, P. N. 7410, 7414  
Riche, C. 10569  
Richman, D. B. 9365  
Richman, J. S. 453, 7546  
Richman, R. 5000  
Richmond, D. 7903  
Richmond, J. 11234  
Richmond, J. A. 10232  
Richmond, L. 4134  
Richmonds, C. 2285, 5313  
Richmonds, C. R. 2284, 9459  
Richter, A. R. 4177, 4469, 5245, 6260, 11767  
Richter, D. A. 9026  
Richter, E. 10796  
Richter, J. 3729  
Richter, L. 5000  
Richter, M. A. R. 6171  
Richter, P. 6111  
Richter, S. 1475, 6411-6412, 8624  
Rickli, M. 5379  
Rico, A. G. 2245  
Riddick, E. W. 4558, 11851  
Riddiford, L. M. 2982, 3153, 4129, 5864, 8510, 11217, 11248, 11260  
Rider, D. A. 46, 4867  
Ridgway, R. L. 4684, 4697, 6259  
Ridsdill-Smith, T. J. 3487, 5444, 11758, 11763  
Rieb, J. P. 9738  
Riebel, A. von 10658  
Riechert, S. E. 3970  
Riecken, U. 1128  
Riede, K. 1088  
Riedell, W. E. 6469, 9701  
Rieder, C. L. 10211  
Riedl, H. 6646, 7548-7549, 9836  
Riegel, C. I. 1253  
Riegner, K. 8582  
Riemann, J. G. 131, 11152  
Ries, U. 1128  
Rieske, L. K. 12001  
Riethmacher, G. W. 11814  
Rieux, R. 4252, 4564  
Riffat, R. 11643  
Rigamonti, I. E. 6879  
Rigato, F. 48  
Rigaud, T. 9518, 11488  
Riggin, T. M. 4475  
Righini, M. 9875  
Rigitano, R. L. O. 3606, 4324, 7570  
Riherd, C. 1571  
Riise, G. 2376  
Rijn, P. C. J. van 8452, 11834  
Riley, A. M. 10320, 11382  
Riley, D. 2267  
Riley, D. G. 4532  
Riley, D. W. 4533  
Riley, E. J. 11711  
Riley, J. R. 4444  
Riley, L. 7249  
Rillon, G. S. 11743  
Rimando, L. C. 4860  
Rimkus, G. 458, 5341, 8586  
Rina Ray 5737  
Rinaudo, M. 11865  
Rinaudo, M. T. 2169  
Rincón J. 8796  
Rinderer, T. E. 9514  
Rindlisbacher, A. 6333, 11599  
Rindner, M. 6037  
Rinella, F. A. 499  
Ring, M. 8236  
Ringer, B. 10465  
Ringer, R. K. 2326  
Ringia, O. 10926  
Rinkleff, J. H. 9579  
Rio, B. 10569  
Río, V. B. del 10588  
Riom, J. 7941  
Riordan, T. P. 6506  
Ríos Betancourt, M. J. 6540  
Riotte, J. C. E. 4753  
Ripa S., R. 8776, 9849, 9867  
Riparbelli, M. G. 11484  
Ripke, F. O. 2270  
Ripley, B. D. 8480  
Rippentrop, J. M. 3414  
Rissing, S. W. 6149  
Risto, C. 3394  
Ritchie, M. G. 2993, 3902, 7032, 8184, 11308  
Ritland, D. B. 4025, 11231  
Ritter, A. 3236  
Ritter, E. M. 10075  
Rittner, P. 1308-1309  
Rittschof, D. 10586  
Riu, C. H. 412  
Riva, M. C. 8533  
Rivas Platero, G. G. 6697  
Rivera, C. 10891  
Rivera, F. 8433  
Rivera, J. 11633  
Rivero, C. 1367  
Riveros-Moeno, V. 5911  
Riviere, G. 7028  
Rizio, E. F. 5530  
Rizki, R. M. 8361  
Rizki, T. M. 8361  
Rizvi, S. M. A. 1480, 5512, 6615, 9662  
R'Kha, S. 2988  
Ro, A. I. 3843, 10186  
Ro, K. S. 6384  
Roach, J. G. G. 9396  
Roam, G. D. 11573  
Robacker, D. C. 4361, 10263  
Robacker, K. M. 1918  
Robak, J. 1501, 1513  
Robb, S. 5908  
Robbins, H. L. 7453  
Robbins, J. 1062, 1675, 3044, 7924, 7930, 8006  
Robbins, L. G. 8213  
Robbins, N. S. 2218  
Robbins, P. S. 5376, 6815  
Rober, J. 6948  
Robert, A. 766  
Robert, D. 4960, 6165  
Robert, P. 1264, 3339, 4158, 7884  
Robert, P. H. 604  
Robert, Y. 1512  
Roberts, B. 1859  
Roberts, D. N. 1946  
Roberts, D. W. 3268, 7745, 8440, 9499, 11507  
Roberts, E. V. 2261



- Roberts, G. 2805  
 Roberts, G. H. 4316  
 Roberts, G. M. 6525  
 Roberts, G. S. 5556  
 Roberts, I. A. 5534  
 Roberts, I. M. 7828  
 Roberts, J. J. 9690  
 Roberts, P. M. 2424  
 Roberts, R. A. 7567  
 Roberts, R. N. 9642  
 Roberts, S. J. 6519  
 Roberts, S. P. 2943  
 Roberts, W. P. 2251  
 Robertson, A. 6233  
 Robertson, B. K. 513  
 Robertson, H. M. 2166, 5986, 7129  
 Robertson, J. L. 8496, 9583, 10506  
 Robertson, L. N. 5396, 11950  
 Robertson, R. M. 10185  
 Robertson, T. S. 11158  
 Robinson, D. J. 7473  
 Robinson, G. E. 6041  
 Robinson, G. S. 728  
 Robinson, J. 5413  
 Robinson, J. F. 5070  
 Robinson, T. 1902  
 Robinson, W. H. 6204  
 Robison, D. J. 3643, 4701  
 Robles-González, M. 8779  
 Robson, R. M. 9391  
 Robson, W. J. 7240  
 Rocas, F. 3187, 5034, 5133, 7188, 11410  
 Rocha, D. N. 4530  
 Rocha, M. R. 7840  
 Rocha-Peña, M. A. 4591  
 Rocha Pite, M. T. 3805  
 Roachat, D. 9916, 10167  
 Rocheleau, T. 2968, 4255  
 Rocheleau, T. A. 1920  
 Rochetti, J. B. 3876  
 Rock, G. C. 10555-10556  
 Rode, M. 1127, 6998  
 Rodelas, B. 503, 6382, 10598  
 Roden, D. B. 723  
 Roderick, G. K. 1949, 7576  
 Rodgers, P. B. 546, 4136, 7416  
 Rodrigo, E. 6686  
 Rodrigue, J. 10628  
 Rodrigues, C., Jr. 4412  
 Rodrigues, S. R. 7022  
 Rodríguez, A. 5461  
 Rodríguez, B. 2735  
 Rodríguez, C. 10237  
 Rodríguez, C. 2947, 11632  
 Rodríguez, C. M. 10891  
 Rodríguez, E. M. 6356  
 Rodríguez, J. 5052  
 Rodríguez, J. 1743  
 Rodríguez, J. G. 8771  
 Rodríguez, J. P. 7271  
 Rodríguez, M. 2779  
 Rodríguez, R. 7826, 9713  
 Rodríguez, R. L. 2001  
 Rodríguez, T. 4642, 4871, 5204, 10283  
 Rodríguez, V. S. 8216  
 Rodríguez A., F. 9849, 9867  
 Rodríguez-del-Bosque, L. A. 550, 11357, 11711  
 Rodríguez-del-Bosque, L. A. 9704  
 Rodríguez del Río, J. 3066  
 Rodríguez-Gonzalo, E. 488  
 Rodríguez-Padilla, C. 4166  
 Rodríguez Peña, J. M. 8817  
 Rodríguez-Ponce, M. P. 8433  
 Rodríguez-Reina, J. M. 5156  
 Rodríguez V., C. 601  
 Rodríguez V., C. L. 7749  
 Roe, R. M. 102, 5889, 6321, 10555-10556  
 Roeder, R. G. 1039  
 Roehrdanz, R. L. 3152, 5992  
 Roehrich, R. 4575, 10866-10867, 11019  
 Roelofs, W. L. 968, 2919, 2960, 4965-4967, 5376, 6815, 7065, 9128, 9172, 9221, 10168  
 Roelvink, P. 9498  
 Roelvink, P. W. 4169  
 Roeper, R. A. 3651  
 Roepstorff, P. 5944-5945, 7030, 8118  
 Roermund, H. J. W. van 3968  
 Roff, D. A. 7113, 9229, 10147, 11171, 11342  
 Roger, P. A. 3352, 10657  
 Rogers, C. E. 1996, 5848, 6056, 6236  
 Rogers, J. S. 7850  
 Rogers, S. O. 11095  
 Roháček, J. 1809  
 Rohani, P. 2112  
 Rohde, M. 781  
 Rohilla, H. R. 6716, 9912  
 Rohitha, B. H. 6109  
 Rohloff, L. H. 2926  
 Rohrbach, K. G. 3719  
 Rohrbacher, J. 5915-5916  
 Rohrer, S. P. 5100, 8132  
 Rohrmann, G. F. 2163, 4906, 6252, 7444  
 Rohwedel, J. 5004  
 Roig Juñent, S. 16  
 Roininen, H. 2668, 5375, 7923  
 Roisin, Y. 2141  
 Roitberg, B. D. 647, 767, 1229, 3844, 4552, 5728, 6008, 11424  
 Rojas, J. C. 3960, 5041, 11146  
 Rojas-Rivas, B. I. 5878  
 Rojas-Rousse, D. 5169, 10369  
 Rojo, S. 1842  
 Rokke, K. 2913  
 Roland, J. 9525  
 Roland, T. J. 5261  
 Roldán, E. 4068  
 Röling, N. 577  
 Rolle, R. S. 3856  
 Rollenhagen, T. 3979  
 Roller, L. 10322  
 Rolon, M. E. 5594  
 Rolston, L. H. 46  
 Romaine, R. P. 11634  
 Román, F. B. 5579  
 Román Vélez, A. de J. 6540  
 Romanenko, A. V. 6217  
 Romano, L. 6356  
 Romanova, S. A. 6560  
 Romanovets, Z. A. 11794  
 Romeijn, G. 4093  
 Romena, A. M. 6484-6485  
 Romer, F. 11216  
 Römer, H. 987  
 Romero, A. 5292  
 Romero, E. 501  
 Romero, J. 11922  
 Romero, R. 5463  
 Romero-Palanco, J. L. 11677  
 Romijn, C. A. F. M. 8567  
 Rommel, M. 2089  
 Rommens, C. 9813  
 Rommens, C. M. T. 9619  
 Rompas, R. M. 9625-9626  
 Romstad, R. 5351  
 Ronchel, M. C. 7472  
 Ronchi, L. 12033  
 Rondonański, W. 1501, 1513  
 Rondot, I. 11271  
 Ronquist, F. 3740  
 Ronsseray, S. 1027  
 Rooney, T. P. 10382  
 Roos, A. M. de 1206  
 Roots, O. 461  
 Ropek, D. 3490  
 Roper, D. S. 493  
 Rophail, J. 2279, 5608  
 Roques, A. 5627, 7917  
 Rosa, A. de la 6661  
 Rosa, J. 7399  
 Rosa, W. de la 3915  
 Rosadi, M. 5290  
 Rosati, F. 58  
 Rosati, P. 655  
 Rosato, E. 2975  
 Rose, A. H. 891  
 Rose, C. W. 8593  
 Rose, D. L. 3004  
 Rose, H. S. 198, 3668  
 Rose, M. 2581, 3767, 6969  
 Rose, M. R. 4926-4927  
 Rose, O. C. 3135  
 Rose, R. L. 10555  
 Rose, S. C. 509  
 Röseler, P. F. 1078  
 Rosell, R. C. 4209, 9126, 9267  
 Rosen, D. 3940, 5398, 6924, 7256, 7578, 8424  
 Rosen, O. M. 5237  
 Rosenberg, L. J. 4444  
 Rosengaus, R. B. 1961  
 Rosengren, R. 973, 5142  
 Rosenheim, J. A. 1636, 4092, 7198, 7816, 8269  
 Rosenkranz, H. S. 8473  
 Rosenkranz, P. 3225, 8359  
 Rosenmeier, L. 2996  
 Rosenstock, L. 1371-1372, 7592  
 Rosenthal, J. P. 2234, 7683  
 Rosenthal, M. D. 4077  
 Roser, C. L. F. 11122  
 Roses, O. E. 2346  
 Rosi, G. 5893  
 Rosiles, M. R. 3388  
 Röske, H. 6088  
 Ross, D. W. 8925, 9540  
 Ross, F. 7752  
 Ross, K. G. 8340, 11278  
 Ross, R. H. 497  
 Ross, S. E. 2179  
 Ross, S. J. 5700  
 Rossa, F. R. la 3631, 3650  
 Rossberg, D. 11393  
 Rossel, H. W. 6568  
 Rossi, A. C. 8786  
 Rossi, A. M. 4777, 10985  
 Rossi, R. E. 10491  
 Rossi, S. S. 11656  
 Rossignol, F. 4267  
 Rossiter, M. 4374  
 Rössler, U. 5907  
 Rössler, W. 989-990, 1898, 8109  
 Rostler, Y. 8778  
 Rost, W. M. 9044  
 Roster, D. L. 11624  
 Rota, F. 2545  
 Rota, P. A. 2052  
 Rote, C. A. 8205  
 Roth, D. S. 3608  
 Roth, G. W. 10713  
 Roth, L. 11075  
 Roth, M. 1308-1309  
 Roth, S. K. 736, 3627  
 Roth, U. 123  
 Rothery, F. A. 7185  
 Rothery, P. 244  
 Rothfield, N. F. 1931  
 Rothman, L. D. 4173  
 Rothschild, M. 4566  
 Rotrekl, J. 2482, 6522  
 Rotundo, G. 6173, 6703, 9979, 11844  
 Rouchaud, J. 2523  
 Rougier, M. 9479  
 Rouhbkashd, D. 7306, 8347  
 Rouland, C. 91, 1235  
 Roush, R. 9521  
 Roush, R. T. 388, 1920, 4219, 6554, 9583  
 Rousseau, E. 2196  
 Rousseau, P. 10744  
 Russell, J. P. 1908  
 Rousselle, P. 10785  
 Roux, C. 10597  
 Roux, J. le 2414  
 Roux, M. 7028  
 Roversi, P. F. 9665  
 Rowe, G. E. 6229  
 Rowell, H. 11270  
 Rowell-Rahier, M. 214, 998, 1957  
 Rowiński, R. S. 2228  
 Rowland, S. 9643  
 Rowley, A. F. 961  
 Rowney, D. L. 745  
 Roy, P. C. 3463  
 Roy, P. M. 7300  
 Roy, R. R. 4960  
 Royalty, R. N. 4477  
 Roychoudhury, N. 8894  
 Royer, C. 6120  
 Rozas, J. 10236  
 Rozenart, V. I. 4253  
 Rozhkov, V. V. 2495  
 Rozov, S. M. 52  
 Rü, B. le 609, 4498  
 Rúa, P. de la 8196  
 Ruangwises, N. 10606  
 Ruangwises, S. 10606  
 Rubetz, I. G. 7833  
 Ruberson, J. R. 2136, 6735, 9421, 11442  
 Rubin, A. 1307  
 Rubin, G. M. 7139, 8182  
 Rubio, D. A. R. 3404  
 Rucińska, L. 5328  
 Rudd, N. T. 3691  
 Ruder, F. 6315  
 Rudolph, D. 1771, 7492  
 Rudolph, J. B. 6449  
 Rudzinski, H. G. 11370  
 Ruecker, N. J. 7605  
 Rueda, L. 4296  
 Rüegger, H. 3247  
 Ruelle, J. E. 3237, 8396  
 Ruelle, R. 5344  
 Ruesink, J. L. 8669  
 Ruf, A. 1102  
 Ruf, L. D. 6875, 8953  
 Rufas, J. S. 1929  
 Ruggiero, A. 1980  
 Ruggie, P. 10751  
 Ruhfing, B. 10179  
 Rühling, A. 10077  
 Rui, C. H. 4245  
 Ruisinger, M. 1716  
 Ruiter, P. C. de 6086  
 Ruiz, A. 1962, 7173, 8187, 11279  
 Ruiz, J. 4627  
 Ruiz, J. L. 6970  
 Ruiz, M. J. 2365  
 Ruiz, X. 11291  
 Ruiz-Dubreuil, D. G. 2966  
 Ruiz-Dubreuil, G. 1960  
 Ruiz-Gutiérrez, V. 6311  
 Ruiz-Olmo, J. 3368  
 Rumbo, E. R. 9654  
 Rumbold, D. G. 11673  
 Rumiatto, M. 4457  
 Rummel, D. R. 4665  
 Rundel, P. W. 3488  
 Rundgren, S. 1072, 3956, 10077  
 Runge, J. B. 7264  
 Rungsipipat, A. 2283  
 Runia, W. T. 6608  
 Runko, S. 5139  
 Runxi, L. 10541-10542  
 Runyan, J. L. 419  
 Ruohola-Baker, H. 3872  
 Ruohomäki, K. 1658  
 Rupali Gogoi 11467  
 Rusek, J. 7069  
 Rusev, R. 7555  
 Rush, C. M. 4400  
 Rushing, K. W. 8028  
 Rushton, E. 1924  
 Rusnock, P. 4722  
 Russell, C. 5410  
 Russell, F. 2330  
 Russell, G. B. 3415  
 Russell, R. J. 8224  
 Russell, R. L. Q. 2163, 7444  
 Russell, R. W. 9606  
 Russell, S. R. H. 7122  
 Russell, T. H., Jr. 1767  
 Russell, V. 2890  
 Russell, W. R. 8702  
 Russo, A. 4744, 11899, 12023  
 Russo, J. 3837, 8531  
 Russo, J. M. 8731  
 Rust, M. K. 5185, 6893  
 Rustamani, M. A. 1609, 2417, 6620  
 Ruzczyk, A. 3878  
 Rutherford, R. S. 8818  
 Rutila, J. E. 2949  
 Rutskaya, V. 7460  
 Rutten, A. L. M. 1167  
 Rutter, A. J. 8807



- Rutz, R. 1361  
 Růžicka, Z. 3835  
 Ryabchenko, N. A. 9669  
 Ryan, B. 11718  
 Ryan, J. 5403  
 Ryan, J. J. 3354  
 Ryan, L. 8040  
 Ryan, M. A. 6693, 9177  
 Ryan, P. 11065-11066  
 Ryan, R. O. 8170  
 Rybczynski, R. 9206  
 Rycroft, R. 9634  
 Rymen, T. 2263  
 Rymerson, R. T. 8802-8803  
 Rynne, K. P. 9429  
 Ryoo, M. I. 8343, 10248  
 Ryou, J. S. 4904  
 Rypstra, A. L. 7733  
 Ryser, J. P. 2547  
 Ryskov, A. P. 147  
 Ryu, H. 3828  
 Ryu, K. 8402  
 Ryu, K. S. 1238  
 S. Carvalho, R. da 3991  
 Sã, L. A. N. de 4416  
 Saad, M. 1959  
 Saam, C. 8427  
 Saarenmaa, H. 5253  
 Saarma, M. 7474  
 Saavedra, J. L. D. 1181  
 Sabbah, S. 10634  
 Sabelis, M. W. 61, 7211, 10482  
 Sabir, M. 5338  
 Sabol, M. R. 8472  
 Sabrosky, C. W. 2103, 3755  
 Saccardo, F. 2231  
 Sacchetti, J. C. 11199  
 Sacchetti, P. 9850  
 Sacchi, V. F. 9242  
 Saccone, G. 4995  
 Sachan, G. C. 1605, 6406  
 Sachdev-Gupta, K. 4507, 8609, 10010  
 Sachs, Y. 3287  
 Sacks, S. 10627  
 Sadakathulla, S. 3582  
 Sadana, G. L. 9909, 10084  
 Sadanandan, A. K. 3678  
 Sadd, J. W. 3383  
 Sadej, W. 8672  
 Sadove, S. S. 3372  
 Sadovskaya, V. L. 1917  
 Sadras, V. O. 8829  
 Sadrud-Din, S. Y. 5899  
 Sáenz Barrio, C. 6644  
 Saffo, M. B. 1139  
 Safranski, G. G. 4402  
 Sage, R. B. 2696  
 Saha, A. K. 8474, 8961  
 Saha, B. 8615  
 Saha, S. C. 6721  
 Saha, S. K. 8138, 11431  
 Sahai, M. 3320-3321  
 Sahai, S. 8528  
 Sahakundu, A. K. 9860  
 Sahara, K. 3246  
 Saharia, D. 6499, 10741  
 Sahay, U. 6214  
 Sahayaraaj, K. 8393, 10915  
 Sahoo, A. K. 5559  
 Sahoo, B. C. 8666  
 Sahoo, B. K. 593, 8698  
 Sahoo, P. 4254  
 Sahota, T. S. 4741  
 Sahu, S. K. 9547  
 Saidman, B. O. 3897  
 Saigo, K. 164  
 Saigusa, T. 4045  
 Saihi, A. 4968  
 Saikia, A. K. 2541  
 Sailasuta, A. 2283  
 Sain, M. 6486, 7707  
 Saini, E. 7732  
 Saini, E. D. 336, 603, 6200  
 Saini, M. L. 7312, 7666, 7795, 10127  
 Saini, R. K. 11300  
 St. Leger, R. J. 3268, 7383, 8440, 9499, 11507  
 Saint-Pierre, C. 1236  
 Saintonge, F. X. 2704  
 Sait, S. M. 246, 4162, 4205, 8387  
 Saito, A. 10993  
 Saito, H. 225, 3849, 4130, 5308  
 Saito, I. 12067  
 Saito, J. 2305  
 Saito, K. 4094, 10740  
 Saito, N. 9966  
 Saito, O. 6533, 9328, 9388, 9798  
 Saito, S. 6353  
 Saito, T. 5438, 9589, 10275, 10552, 10563-10564, 11477, 11578  
 Saito, Y. 3148  
 Saitoh, A. 6801  
 Sáiz, F. 5564  
 Saiz, S. 3171  
 Sakai, H. 11547  
 Sakai, M. 11101  
 Sakai, T. 11338  
 Sakai, W. H. 5080  
 Sakakibara, M. 10870  
 Sakala, M. 6567  
 Sakaluk, S. K. 3053-3054, 9300  
 Sakamaki, N. 10576  
 Sakamaki, Y. 10106  
 Sakamoto, S. 7516  
 Sakanaka, K. 6119  
 Sakashita, T. 10270  
 Sakata, H. 2098  
 Sakata, K. 8178  
 Sakellaridis, M. 11961  
 Sakharov, D. 120  
 Sakharova, N. I. 521  
 Sakonju, S. 5970  
 Sakthivel, N. 1589  
 Sakthivel, V. 8525  
 Sakuma, M. 5380  
 Sakurai, H. 7157, 9146  
 Sakurai, M. T. 1944  
 Sakuratani, Y. 4500-4502, 5183, 10939  
 Sala, A. 684  
 Salah, H. B. 6555  
 Salah, M. 10444  
 Salam, A. K. A. 3486  
 Salam, A. Z. E. 3387  
 Salama, A. K. 8566  
 Salama, H. S. 6244, 11765  
 Salama, Z. A. 8959  
 Salame, M. J. 2297  
 Salardini, A. A. 805  
 Salas, J. 1517, 7784, 10819  
 Salatino, A. 7999  
 Salaun, J. P. 5884  
 Salazar, A. 2470, 3471, 3475, 10738  
 Salazar Escobar, J. A. 5090, 5096  
 Salazar Guerra, O. 8817  
 Salbu, B. 2376  
 Salcedo González, J. 8817  
 Saldarriaga V., A. 2501, 10279  
 Saleem, M. A. 1330, 2280, 6343, 10518  
 Saleem, M. D. 7795  
 Saleh, M. 7356  
 Saleh, M. A. 1349, 2319, 2813  
 Saleh, M. M. E. 10370  
 Saleh, S. M. 676  
 Saleem, S. 11765  
 Salemaa, M. 721  
 Sales, F. J. M. 409  
 Salgado, L. O. 1392, 4324, 7570  
 Salgado, V. L. 10509  
 Salguero, V. 8742  
 Salinas, F. 6110  
 Salinas, H. 7791  
 Salles, L. A. B. 4001-4002, 4202, 4567, 4598, 7207, 8278, 8457  
 Salm, T. van der 2233  
 Salmeron, J. 9813  
 Salmeron, J. M. 9619  
 Salmeron, V. 489, 503, 6374, 6382, 10598  
 Salmon, F. 6081  
 Salmon, R. 10342  
 Salom, S. M. 2258  
 Salt, D. T. 8922  
 Salt, D. W. 4247  
 Salto, C. 7366, 7650  
 Salum, M. S. 9915  
 Salunke, D. 9218  
 Salunkhe, G. N. 5429-5430, 5481, 11601, 11804  
 Salvado, J. C. 8198  
 Salvo, A. 10982  
 Salyani, M. 2069, 3560  
 Sama, A. 12033  
 Samal, T. 4254  
 Šaman, D. 11687  
 Samaraweera, P. 8202  
 Samarjit Rai 11811  
 Samenun, R. J., Jr. 7718  
 Samis, A. J. W. 9603  
 Sammaiah, C. 9164  
 Sammataro, D. 4108  
 Sample, B. E. 7594  
 Sampoonam, S. 2309  
 Sams, C. E. 8751  
 Samsijah 2145  
 Samsøe-Petersen, L. 2335  
 Samson, M. V. 9470, 11466  
 Samson, P. R. 1611, 8816, 9923-9924  
 Samu, F. 8371  
 Samuel, S. D. 1623  
 Samuels, R. I. 7424-7425  
 Samuelson, D. W. Stanley- 140  
 Samuelson, G. A. 8037  
 Samui, R. P. 695  
 Samways, M. J. 8271  
 San, N. van 2107  
 San Román, L. 11701  
 Sanborn, A. F. 11318  
 Sánchez, F. G. 10588  
 Sánchez, G. 7648  
 Sanchez, J. 8807  
 Sánchez, J. A. 8825  
 Sánchez, M. 6148, 6709, 7325  
 Sánchez, M. V. 10891  
 Sánchez, P. 8254  
 Sánchez, P. A. 5574, 5839, 7862  
 Sánchez-Arroyo, H. 447, 6256  
 Sánchez-Baeza, F. 7520  
 Sánchez-Camazano, M. 488, 2366, 4337  
 Sánchez-Fortún, S. 4289  
 Sánchez G., G. 2483  
 Sánchez M., J. 2087  
 Sánchez-Martín, M. J. 488, 2366, 4337  
 Sánchez-Martínez, G. 4731  
 Sánchez-Peña, S. R. 9495  
 Sánchez-Piñero, F. 7287  
 Sánchez-Rasero, F. 5292  
 Sánchez Raya, A. J. 4628  
 Sánchez Sánchez, A. 3704  
 Sánchez-Vindas, P. 11701  
 Sanchez y Garcia-Figueroa, F. 2199  
 Sanchis, A. 12011  
 Sancho, E. 2333, 7559  
 Sancho, M. T. 8572, 9601  
 Sand-Jensen, K. 734  
 Šanda, M. A. 9793  
 Sandanayake, W. R. M. 1211  
 Sandeep Gupta 4149  
 Sander, J. E. 2313  
 Sanderford, M. V. 7191  
 Sanders, C. J. 9656  
 Sanders, P. R. 9713  
 Sanders, S. J. 8176  
 Sanderson, J. P. 3200, 4219, 8263, 10980, 12024  
 Sanderson, S. M. 11716  
 Sandhu, G. S. 638, 5485, 5514  
 Sandhu, S. S. 3256, 3630  
 Sandlin, E. A. 3686-3687  
 Sándor, Z. 1618  
 Sandoval-Coronado, C. F. 4166  
 Sandskär, B. 11505  
 Sandström, J. 2900, 3016, 4467, 5406  
 Sandvik, M. 5352, 11179  
 Saner, M. A. 6860  
 Sanetra, M. 3880  
 Sangar, R. B. S. 11894  
 Sangaré, A. 9916  
 Sanicola, M. 5964  
 Sanjay Kumar 11942  
 Sanjayan, K. P. 6143, 8622, 11188  
 Sanjeev Kumar 1586  
 Sannigrahi, S. 1620, 5256, 5593  
 Sannino, F. 528  
 Sannino, L. 11961  
 Sano, T. 4074  
 Sans, A. 7634  
 Sanson, G. D. 1859  
 Santa Cecilia, L. V. C. 4597  
 Santamaria, P. 7112  
 Santamaria, S. 1257  
 Santana, D. L. Q. 3639  
 Sant'Ana, J. 7451  
 Santana-Casiano, J. M. 9632  
 Santander, R. 4008  
 Santhalakshmi, G. 2222  
 Santhi, M. 10037-10038  
 Santhosh-Babu, P. B. 12046  
 Santiago, E. 7130  
 Santiago-Alvarez, C. 315, 330, 2173, 4146, 6395, 7329, 7432, 7624  
 Santiago-Blay, J. A. 11241, 11244  
 Santino, C. G. 9713  
 Santos, L. de 7282, 10935  
 Santo, C. del 2894  
 Santolucito, J. A. 2318  
 Santoro, C. 684  
 Santos, G. M. T. dos 4754  
 Santos, G. P. 1205, 3639, 5635, 7020  
 Santos, J. L. 11237  
 Santos, J. P. 1329, 8515  
 Santos, M. 2995, 7173, 8187  
 Santos, M. L. 1188  
 Santos, R. 6148  
 Santos, R. A. dos 3878  
 Santos, W. J. dos 3621  
 Santos Rando, J. S. 3558  
 Santos, E. 2659  
 Sanyagina, N. A. 1388  
 Sanz, J. 3319  
 Sanz, P. 11483  
 Sanz Asensio, J. 6644  
 Sanz-Barrera, F. 4289  
 Saphier, P. W. 263  
 Saphir, N. 9988  
 Sappal, N. P. 11433  
 Sappington, T. W. 11174  
 Šäpunaru, T. 533  
 Saraf, M. 9623  
 Sarasua, M. J. 6650  
 Saraswat, S. B. 9252  
 Saratchandra, B. 7017  
 Sarath, G. 5869  
 Sardana, H. R. 6723  
 Sardar, M. A. 5177, 8462  
 Sardashti, M. 4363  
 Sarder, M. A. 3707  
 Sareen, M. L. 128  
 Sarkar, S. N. 464  
 Sarkar, T. K. 8291  
 Sarma, P. Nageswara 1366  
 Sarmah, M. 2616  
 Sarmiento, M., C. E. 4850, 6191  
 Sarnaik, D. N. 8834-8835, 8837  
 Sarthoy, O. 6409  
 Sarode, S. V. 1297  
 Šárospataki, M. 9323  
 Sarto i Montevs, V. 6948  
 Sartor, G. 2569  
 Sartori, M. R. 8419  
 Satorio, R. C. 3639  
 Sarwar, G. 4309  
 Sasagawa, H. 7457  
 Sasakawa, M. 5722, 6810, 8075, 10110  
 Sasaki, C. 6299, 10642  
 Sasaki, J. 10421  
 Sasaki, M. 7824, 9564-9565  
 Sasaki, T. 978, 2454, 5940, 7041, 11307  
 Sasaki, Y. 10993  
 Sasano, H. 2374, 9602, 10574  
 Saschenbrecker, P. W. 5733  
 Sasidharan, T. O. 9384



- Sasikumar, N. 10586  
 Sass, M. 101, 3864  
 Sastrodihardjo, S. 9934  
 Sastrosiswojo, S. 5265  
 Sastry, M. V. S. 1452  
 Sastry, P. R. 9627  
 Satapathy, M. K. 6936  
 Satbir Singh Bhatti 5020  
 Sathe, T. V. 5820  
 Sathya Prasad, K. 5730  
 Satish Chandra 274  
 Satka, H. 5664-5665  
 Satoh, H. 4368, 6757, 7952, 9466, 9478  
 Sato, K. 5633, 9799, 11751  
 Sato, M. 974, 6341, 6345, 7914  
 Sato, M. E. 2724, 4579, 7487, 7529, 8786  
 Sato, N. 9792  
 Sato, O. 2420  
 Sato, R. 4163, 4165, 6251, 9564-9565  
 Sato, S. J. 9713  
 Sato, T. 5951, 7033  
 Sato, Y. 2381, 2939, 3849, 4130, 10394, 12051  
 Satoh, G. T. 9959  
 Satokangas, P. 11304  
 Satow, T. 3161  
 Satpathi, C. R. 5552  
 Satpute, U. S. 8834-8835, 8837  
 Sattler, U. 380  
 Satya Vir 8861  
 Saucier, J. R. 8014  
 Sauer, A. 4480  
 Sauer, A. E. 10183  
 Sauerborn, S. 10665  
 Saueressig, T. M. 7316  
 Saul, S. H. 1934  
 Sauman, I. 1913  
 Saunders, D. S. 3874  
 Saunders, M. 6552, 7756  
 Saunders, M. C. 4261, 8495  
 Saunders, S. 7838  
 Saunders, W. S. 1931  
 Sauphanor, B. 1084, 2335, 4565, 12044  
 Saura, A. 5875-5876, 6861  
 Sauter, W. 9363  
 Sauvion, N. 11564  
 Savage, E. P. 1358  
 Savage, G. P. 11552  
 Savage, M. 2646  
 Savakis, C. 6224  
 Savanurmath, C. 3281  
 Savanurmath, C. J. 9487  
 Savaria, D. 2196  
 Savary, S. 3457  
 Savé, R. 5508  
 Savi, D. 11400  
 Savini, V. 3750, 7737  
 Savitri, E. 5290  
 Savitz, D. 482  
 Savolainen, R. 817, 6152, 10360  
 Savostikov, S. D. 6202  
 Sawa, M. 3803  
 Sawada, H. 2017, 6482, 7104  
 Sawada, M. 1891-1892, 2766  
 Sawada, Y. 8084  
 Sawamoto, K. 4983  
 Sawamura, R. 5331  
 Sawchyn, K. C. 252, 820  
 Sawhney, R. 9623  
 Sawin, E. P. 3971  
 Sawyer, A. J. 1302, 4147, 11474  
 Sawyer, G. S. 12081  
 Saxena, A. K. 9736  
 Saxena, A. M. 10516  
 Saxena, D. M. 6367  
 Saxena, J. D. 8502, 8729, 11585  
 Saxena, K. N. 5417, 7679  
 Saxena, M. C. 874  
 Saxena, N. N. 360, 8446  
 Saxena, R. C. 2277, 2450, 5835, 6548, 6895, 11246, 11740-11741  
 Saxena, V. S. 3329, 6330  
 Sayed, T. S. 2403  
 Sayeed, O. 1087  
 Scala, G. 8355  
 Scalco, A. 9862  
 Scali, V. 1017, 2049, 5010  
 Scalzo, R. L. 5577  
 Scarborough, K. 253  
 Scarisbrick, D. H. 4616  
 Scarpatti, M. L. 5577  
 Scarpelli, F. 11882  
 Scarpellino, L. 4925  
 Schaaf, D. J. 7500  
 Schaalje, G. B. 6434, 9680  
 Schaber, B. D. 8679-8680, 9744  
 Schachtner, J. 8152  
 Schade, M. 11428  
 Schade, V. 8984  
 Schading, R. L. 10447  
 Schaefer, C. W. 5787, 9065, 11142  
 Schaefer, J. 8172  
 Schaefer, P. W. 4609  
 Schaeffer, D. J. 4286, 11668  
 Schaeffer, J. M. 5100, 8132  
 Schaeetzen, C. de 1533-1534  
 Schäfer, D. 4941, 10673  
 Schäfer, M. 8228  
 Schäfer, U. 8228  
 Schäffer, A. 9639  
 Schaffer, B. 9025  
 Schaffner, J. C. 11104  
 Schagen, J. van 3552  
 Schalk, J. M. 5482  
 Schall, J. J. 2161  
 Schantz, M. M. 472, 2383  
 Schantz, S. L. 3347  
 Scharbach, R. D. 756  
 Scharberg, D. L. 11402  
 Schatz, B. 3950  
 Schatz, B. G. 1591  
 Schatz, W. 4452  
 Schatzki, T. F. 5749  
 Schaub, G. A. 7388  
 Schaub, L. 8750  
 Schaub, L. P. 9970  
 Schäumele, W. R. 2611  
 Schauff, M. E. 1807, 11078  
 Schedl, P. 4997  
 Schedl, W. 4727  
 Scheepmaker, J. W. A. 7993  
 Scheffrahn, R. H. 3763, 6968, 9588, 10134  
 Scheirs, J. 2025  
 Schell, S. P. 5046  
 Scheller, K. 11272  
 Schemske, D. W. 6591  
 Schenck, F. J. 10330, 10567  
 Scherer, R. 5709, 7324, 10712  
 Scherer, W. 1549  
 Scheunert, I. 4314  
 Scheurer, S. 755  
 Scheuring, J. F. 7685  
 Schicha, E. 735  
 Schick, K. 3776  
 Schierwater, B. 10076  
 Schiff, N. 11275  
 Schiff, N. M. 8175  
 Schiffers, B. 420  
 Schildberger, K. 138  
 Schilder, K. 5140  
 Schillhammer, H. 2027  
 Schimmel, C. 267  
 Schinzig, M. 3962  
 Schipper, B. 5234  
 Schirrmanns, K. 5897  
 Schirocki, A. 10457  
 Schlabach, M. 2047  
 Schlegel, D. 11427  
 Schleider, P. G. 1097  
 Schliephake, E. 7460  
 Schliesske, J. 1648  
 Schlifelman, L. 2718  
 Schlindwein, M. N. 1974, 5130, 11417  
 Schlittler, F. M. 11417  
 Schlöterer, C. 11138  
 Schluter, K. 10077  
 Schlyter, F. 1698, 2021  
 Schmaedick, M. A. 3535  
 Schmekel, K. 151, 1024  
 Schmid, A. 2547  
 Schmid, A. T. 167  
 Schmid, R. D. 2375, 3396  
 Schmid-Hempel, P. 7217, 11355  
 Schmidli, H. 11599  
 Schmidt, B. 1367  
 Schmidt, E. R. 7291  
 Schmidt, F. 4360, 9652  
 Schmidt, F. G. V. 8332  
 Schmidt, G. H. 842, 1696, 2872, 3314, 3422, 4961, 7169  
 Schmidt, H. E. 10769  
 Schmidt, H. U. 10508  
 Schmidt, I. 6262  
 Schmidt, J. 8149, 11541  
 Schmidt, J. M. 5060  
 Schmidt, L. J. 3343  
 Schmidt, O. 145, 324, 10367  
 Schmidt, P. 2644  
 Schmidt, R. 504  
 Schmidt, S. 4577  
 Schmidt, T. 11232  
 Schmidt, V. M. 5625  
 Schmidt, W. 11667  
 Schmidt, W. F. 9653  
 Schmiel, D. 1270  
 Schmitt, J. 11022  
 Schmitt, J. J. 4555, 9835  
 Schmitt, P. 501  
 Schmitz, G. 8064  
 Schmitz, H. 4956, 9330  
 Schmitz, J. 111, 5913  
 Schmitz, V. 4575, 10867  
 Schmuck, R. 6046  
 Schmutterer, H. 808, 1523, 1725, 2575, 10712, 11797, 11877  
 Schnauder, C. 1222  
 Schnee, H. 913  
 Schneider, C. 2249  
 Schneider, D. 2388, 7485  
 Schneider, D. H. 5817  
 Schneider, J. C. 2519  
 Schneider, M. 4874, 7621, 11232  
 Schneider, W. 2042  
 Schneiderman, A. M. 5861, 6042, 9187  
 Schnitter, P. 10304, 10304  
 Schnitter, P. H. 1126  
 Schnitzler, P. 5216, 8438  
 Schoeman, A. S. 4545  
 Schoener, T. W. 11440, 11459  
 Schoenig, S. 9640  
 Schoenly, K. 7713  
 Schoenmaker, J. 7352  
 Schoederer, J. H. 4694  
 Schoknecht, U. 7492  
 Scholtissek, C. 10412  
 Scholtz, C. H. 927, 1855  
 Scholtz, R. 2057  
 Scholz, H. 7140  
 Scholz, K. 511  
 Scholze, P. 1477, 1878  
 Schon, M. K. 4518  
 Schön, N. 7512  
 Schönbeck, F. 8043, 9663  
 Schönborn, C. 1164  
 Schönherr, J. 5625, 9552  
 Schoofs, L. 5124  
 Schooley, D. A. 9169  
 Schooneveld, H. 1896  
 Schoonhoven, L. M. 2923  
 Schopf, A. 1080, 7093  
 Schopf, R. 9986, 11184  
 Schorn, K. 9542  
 Schotzko, D. J. 1291, 6421, 8635  
 Schouest, L. P., Jr. 4671  
 Schowalter, T. D. 3626, 5778  
 Schrag, S. J. 8235  
 Schreiber, E. T. 7340  
 Schreiber, G. 4613  
 Schreiber, J. D. 505  
 Schreiner, I. H. 1582  
 Schreiter, G. 4184, 10445  
 Schröder, F. 9174  
 Schroder, R. F. W. 72  
 Schroeder, D. 828  
 Schroeder, H. E. 2777  
 Schroeder, L. M. 1686, 2390, 8916  
 Schroeder, M. E. 9705  
 Schroeder, P. C. 4176, 9746  
 Schruft, G. 4577, 5540  
 Schubert, K. R. 8508  
 Schuck, E. 7856  
 Schueller, J. K. 2070  
 Schuh, R. 2027  
 Schuh, R. T. 6185, 11127  
 Schuiten, M. 3188  
 Schul, J. 6004  
 Schuldt, M. 6356  
 Schuler, M. A. 1945, 9158, 11249  
 Schuler, W. 9713  
 Schulthess, F. 5423, 8618, 10714  
 Schults, D. W. 3377  
 Schultz, J. C. 1671, 8865  
 Schultz, P. B. 7916, 10001  
 Schultz, S. 4937  
 Schultz, T. R. 10361-10362  
 Schultz, T. W. 5330  
 Schultze-Kraft, R. 8884  
 Schulz, B. 10705  
 Schulz, F. A. 1771, 5739  
 Schulz, S. 1403, 1657, 1889  
 Schulz, W. 3422  
 Schulz-Bull, D. E. 7575  
 Schulze, K. 8192  
 Schumacher, R. K. 4792  
 Schumacher, T. E. 4419  
 Schumann, R. D. 9411, 11317  
 Schümperli, D. 5215  
 Schürmann, F. W. 222  
 Schuske, K. 4992, 11137  
 Schuster, D. J. 4532, 7577  
 Schuster, J. C. 5801  
 Schutte, A. L. 10454  
 Schutz, H. 10478  
 Schuurman, G. 10386  
 Schuytema, G. S. 1347, 3358, 6362  
 Schvester, D. 8917  
 Schwab, W. 1381  
 Schwack, W. 1382, 2262, 10517  
 Schwallier, F. 1535  
 Schwartz, A. 2568, 11883  
 Schwartz, J. L. 2196  
 Schwartz, L. M. 997, 11197  
 Schwartz, M. D. 3770, 10745, 11125  
 Schwarz, A. 2547  
 Schwarz, B. 3413  
 Schwarz, J. J. 2547  
 Schwarz, M. 3232, 4375  
 Schweigl, U. 9843  
 Schweingruber, F. H. 8899  
 Schweizer, C. 9759  
 Schwenke, J. R. 1451  
 Schwerin, J. 4556  
 Scibona, G. 10507  
 Scoble, M. J. 144, 10100, 10119  
 Scognamiglio, F. 684  
 Scott, A. W. 6740  
 Scott, D. 4982  
 Scott, D. B. 2414  
 Scott, D. M. 1496  
 Scott, D. S. 2290  
 Scott, D. W. 4720  
 Scott, H. D. 6387  
 Scott, J. A. 1943  
 Scott, J. G. 4236, 7527, 8494  
 Scott, M. 783  
 Scott, M. P. 4992, 7144  
 Scott, W. P. 4268  
 Scotti, P. 2177  
 Scouras, Z. G. 5957  
 Scriber, J. M. 3634, 5392, 10438  
 Scrimshaw, M. D. 4344  
 Scudato, R. J. 9642  
 Scudder, G. G. E. 8305, 11380  
 Scupola, A. 11413  
 Scutareanu, P. P. 7917  
 Seabrook, W. D. 2566  
 Seaby, D. A. 2710  
 Seager, R. D. 8285  
 Seal, D. R. 11774-11775  
 Seaman, W. L. 6925  
 Sears, M. K. 4489, 4515, 10800  
 Sears, R. G. 2416  
 Seaton, K. A. 5746  
 Seawright, J. A. 10264



- Seay, C. 6514  
 Sebastian, P. C. 11780  
 Sebesta, E. E. 3443, 9686  
 Seccacini, E. 432  
 Seck, D. 11004  
 Sedas, V. T. P. 11633  
 Sedivý, J. 5570, 6440, 6444, 6807, 10698  
 Sediya, T. 7729  
 Sedlacek, J. D. 6885  
 Sedmera, P. 5211  
 Seeburg, P. H. 2054, 10153  
 Seeda, M. A. 6388  
 Seefeld, F. 10639  
 Seema Kumar 1586  
 Seeman, O. D. 11288  
 Segarra, C. 1042, 8223, 10236  
 Segarra-Carmona, A. 10326  
 Segarra-Carmona, A. E. 6273  
 Segeren, M. I. 3524  
 Segura, B. J. 2918  
 Segura, L. 629  
 Segura-Correa, R. 6400  
 Sehgal, S. S. 9748  
 Sehnal, F. 114, 2982, 8231, 11272  
 Seiber, J. N. 9636, 10589, 10649  
 Seidel, G. E. 9605  
 Seidel, M. 1906  
 Seif, A. I. M. 11752  
 Seifelnasr, Y. E. 1449  
 Seifers, D. L. 1421  
 Seip, C. E. 8407  
 Sejalía, A. S. 11838  
 Sekar, M. F. 3010  
 Sekar, S. 2309  
 Sekar, V. 8326, 8431  
 Sekelsky, J. 5964  
 Sekelsky, J. J. 9250  
 Şekeroğlu, E. 7205  
 Sekhar, J. C. 9760  
 Sekhon, H. S. 8700  
 Sekhon, P. S. 9673  
 Sekhon, S. S. 5426, 7665, 7680  
 Seki, A. 1245  
 Seki, H. 11497  
 Sekiguchi, Y. 844, 4807  
 Sekita, N. 6076  
 Sekiya, M. 12020  
 Sekulić, R. 6257, 6466  
 Sekun, N. P. 11724  
 Sekyra, M. 7607  
 Selander, R. B. 2856  
 Seldal, T. 11997  
 Selegue, J. 9103  
 Seletković, Z. 7915  
 Selfa, J. 9373  
 Selhorst, T. 7319  
 Selikhovkin, A. V. 8866  
 Selinger, Z. 8153  
 Selivanova, T. N. 2593  
 Selvanayagam, M. 5704  
 Selvaraj, A. 3595  
 Selvaraj, O. S. 6488  
 Semczyszak, A. 10957  
 Semenciw, R. 482  
 Semicheva, T. V. 3442  
 Semon, E. 766  
 Semwal, B. D. 9920  
 Sen, A. 8015  
 Sen, M. 9376  
 Sen, P. 1729, 7872  
 Sen, S. E. 8131  
 Sen-Sarma, P. K. 10928  
 Senapati, B. 1483, 4254, 5440, 7712, 11745-11746  
 Senapati, H. K. 593  
 Senapati, S. K. 5619  
 Sendova-Franks, A. B. 11326  
 Senft, D. 11032  
 Sengalevich, G. 7555  
 Şengonca, Ç. 230, 267, 445, 1420, 1428, 1569, 3423, 5168, 7232, 7736, 11428, 11436, 11895  
 Sengupta, D. 6355  
 Senguttuvan, T. 10894  
 Sen'kova, E. A. 2559  
 Senn, J. 6750  
 Senn, W. 11354  
 Sennefelder, G. 2336  
 Senseman, S. A. 3315, 10667  
 Senthamilselvi, S. 582  
 Sentinel 6293  
 Seo, S. J. 10176, 11515  
 Seong, K. S. 5691  
 Seppä, P. 1868, 3185, 8188  
 Sequeira, R. 184, 585  
 Sequeira, R. A. 3616  
 Serafim, R. 1837  
 Serdyuk, V. P. 2495  
 Serebryakov, E. P. 519  
 Sergio, L. 10033  
 Sericano, J. E. 2346  
 Serikaku, M. A. 8209  
 Serini, G. B. 2685  
 Sermann, H. 7428, 7486  
 Sermeño Chicas, J. M. 8694  
 Serra, C. A. 1523  
 Serra, J. 4534  
 Serra, L. 8223  
 Serrani, F. 11733  
 Serrano, A. 6661  
 Serrano, J. 7302, 7341, 8196  
 Serrano, J. C. 9264  
 Serrano, J. M. 1465, 6150  
 Serrano, L. 5508  
 Serrano, M. S. 2474, 5454  
 Serrano P., A. 3565  
 Serranzana, S. 3139  
 Service, P. M. 4900  
 Sesé, A. I. L. 6623  
 Seshu Reddy, K. V. 5417, 7841  
 Sesma, P. 3794, 11210  
 Sessler, B. 10842  
 Seta, G. 2400  
 Setälä, H. 6799  
 Sétamou, M. 5423  
 Setamou, M. 10714  
 Seth, T. D. 11658  
 Sethi, G. R. 8486, 9261  
 Sethuanthan, N. 9547  
 Sethulakshmi, T. 834  
 Setokuchi, O. 4500-4502  
 Setsuda, K. I. 7992  
 Settesoldi, D. 3155  
 Settimi, L. 2315  
 Setty, T. A. S. 2461  
 Seul, K. H. 3828  
 Sevala, V. L. 408, 5931  
 Sevala, V. M. 5947  
 Sevast'yanova, G. A. 147  
 Severin, M. 11004  
 Severson, D. W. 4646  
 Severson, R. F. 10019  
 Sevvick, S. H. 339  
 Sevila, F. 3157  
 Sewify, G. H. 10720  
 Seykens, D. 3821  
 Seymour, J. E. 3920  
 Seymour-Laurent, K. J. 1895  
 Seynnaeve, M. 2789-2791  
 Seyoum, E. 6237, 7424  
 Sgardelis, S. P. 3069  
 Shaaban, A. M. 2626  
 Shaaya, E. 9131, 11160, 12070  
 Shabanowitz, J. 11201  
 Shade, R. E. 2777, 4810  
 Shaffer, C. S. 11298  
 Shah, A. A. 2489, 11830  
 Shah, A. D. 10771, 11926  
 Shah, A. H. 1454, 5467, 5576, 9762  
 Shah, G. S. 7692  
 Shah, N. K. 1455-1456  
 Shah, P. 7427  
 Shah, P. A. 280, 7328, 10791  
 Shah, P. G. 11888  
 Shaheen, F. A. 6298  
 Shahid, M. 6415  
 Shai, Y. 11519  
 Shain, Z. 5562  
 Shakeri, M. 3549  
 Shakoori, A. R. 1330, 2280, 5338, 6343, 8499, 11643  
 Shalish, C. I. 1053  
 Shamila Kalia 6773  
 Shamim, M. 2174, 2176, 11523  
 Shamina 3903, 3906-3907, 11257  
 Shams-El-Din, A. M. 11813  
 Shams Zahoor 11000  
 Shamseldan, M. M. 10450, 11489  
 Shamshina, T. N. 9523  
 Shand, J. A. 6502  
 Shang, J. N. 2119, 8421, 9529  
 Shang, Y. F. 9677  
 Shani, A. 4634  
 Shankar, J. S. 11682  
 Shankariah, K. 2341  
 Shanmugasundaram, M. 2222  
 Shannag, H. K. 6616, 9824  
 Shanower, T. G. 5391, 8618, 8699  
 Shantha Vijayaraghavan 11621  
 Shao, H. G. 10129  
 Shao, X. Q. 3618, 10919  
 Shao, Y. H. 2654  
 Shao, Z. Z. 11527  
 Shapar', M. V. 2559  
 Shapira, E. 7845  
 Shapiro, I. D. 2504  
 Shapiro, J. A. 10481  
 Shapiro, J. P. 1779, 9885, 9888  
 Shapiro, M. 4142, 8418, 8444-8445, 9511  
 Sharaby, A. 6244, 8959  
 Sharar, S. K. 7050  
 Sharif, F. A. 10656  
 Sharifi, M. R. 3488  
 Sharkey, M. J. 11106  
 Sharma, A. 3564, 8481, 9883  
 Sharma, A. K. 3407  
 Sharma, A. N. 6538, 11769  
 Sharma, B. L. 11946  
 Sharma, B. R. 9795  
 Sharma, C. M. 6590  
 Sharma, C. P. 11871  
 Sharma, D. 7639  
 Sharma, D. C. 597, 618, 2602, 3510, 9816  
 Sharma, D. D. 5513  
 Sharma, D. K. 1313  
 Sharma, H. C. 1445, 3450, 5427-5428, 5431, 6530, 7685, 7688, 7690  
 Sharma, H. M. 594  
 Sharma, I. 3899  
 Sharma, J. 2293-2294  
 Sharma, J. K. 1765, 6645, 8705  
 Sharma, K. C. 3507, 4478, 5851, 7739  
 Sharma, K. P. 8815  
 Sharma, M. 3904-3905  
 Sharma, M. K. 6894  
 Sharma, M. L. 2050, 6534, 10755, 11894  
 Sharma, O. P. 1202, 2120, 10388  
 Sharma, P. D. 6738  
 Sharma, P. K. 2602, 5501  
 Sharma, P. L. 7793  
 Sharma, P. V. 656  
 Sharma, R. 1312, 10535  
 Sharma, R. C. 3329  
 Sharma, R. D. 1313  
 Sharma, R. K. 6534, 10755  
 Sharma, R. N. 3419, 9376  
 Sharma, R. P. 7727, 10016  
 Sharma, R. P. R. 594  
 Sharma, S. 3904-3905, 11475  
 Sharma, S. D. 2120, 10388  
 Sharma, S. K. 8813  
 Sharma, S. P. 10127  
 Sharma, S. R. 5499  
 Sharma, V. 5158-5159  
 Sharma, V. K. 11781, 11783  
 Sharov, A. 1174  
 Sharp, E. J. 7119  
 Sharp, J. L. 1774, 9790  
 Sharpe, R. G. 11423  
 Shasha, B. S. 4424, 10707  
 Shashi Verma 5572  
 Shaukat, S. S. 4828, 6868, 9007  
 Shaver, T. N. 6720, 9138, 9925-9926  
 Shaw, B. D. 1468  
 Shaw, C. 137, 4969  
 Shaw, D. 4338  
 Shaw, D. D. 1030  
 Shaw, K. C. 7195, 11298  
 Shaw, M. R. 3206  
 Shaw, P. 1785, 3310  
 Shaw, P. W. 6632  
 Shaw, S. R. 906  
 Shaw, S. S. 4582, 8828  
 Shaw, T. C. 9391  
 Shawkit, M. A. 176  
 Shchelokova, E. V. 6821  
 Shchukin, A. 3335  
 Shea, D. W. 2291  
 Sheaffer, C. C. 863  
 Sheahan, D. 9634  
 Shearer, P. W. 7548-7549  
 Shearn, A. 1055  
 Sheck, A. L. 10265  
 Sheela Singh 6211  
 Sheen, T. F. 669  
 Sheila, M. K. 10036  
 Shekar, B. M. C. 561, 8654  
 Shekar, V. B. 2437  
 Shekh, A. M. 5498, 11339  
 Shekharappa, K. 328  
 Shelby, K. S. 5217  
 Sheldon, S. P. 8004  
 Shelley, R. M. 9076  
 Shelley, T. E. 2236  
 Shellie, K. C. 6675  
 Shellman-Reeve, J. S. 768  
 Shelly, T. E. 5045  
 Shelton, A. M. 7498, 10539-10540  
 Shelton, D. R. 485  
 Shelton, M. D. 4608  
 Shen, B. Y. 3653  
 Shen, B. Y. 10104  
 Shen, B. Y. 11455  
 Shen, D. A. 3494  
 Shen, J. L. 6317, 9896, 10546  
 Shen, J. P. 9733  
 Shen, J. S. 3468, 11334  
 Shen, J. Z. 385, 11522  
 Shen, W. 10391  
 Shen, Z. R. 686, 8342  
 Sheng, J. K. 8, 921, 8053  
 Sheng, J. Z. 367  
 Sheoran, I. S. 8629  
 Shepard, B. M. 4107, 4511, 10728  
 Shepherd, D. 11172  
 Shepherd, R. F. 6800, 9123  
 Sheppard, A. W. 2745, 6856, 12053  
 Sheppard, C. A. 4142, 8444-8445  
 Sheppard, R. N. 1731  
 Sheppard, S. C. 5118  
 Sheppard, W. S. 8204, 11256  
 Sherbeny, K. M. El- 5307  
 Sherley, G. H. 1076  
 Sherma, J. 2046, 2292  
 Sherman, P. M. 6058  
 Sherpa, S. L. 809  
 Sherratt, T. 5105  
 Sherratt, T. N. 7242, 7672, 9280  
 Sherwood, J. L. 7476  
 Shetgar, S. S. 11925, 11938  
 Shetty, T. A. S. 7716  
 Shevale, B. S. 6681  
 Shevelev, A. B. 5243  
 Shevtsov, V. V. 6821  
 Shi, B. C. 2886, 11143  
 Shi, G. H. 4299  
 Shi, W. C. 3094, 9342  
 Shi, Y. 2232, 2621, 5269, 9945  
 Shi, Y. L. 5806, 8317  
 Shii, Y. S. 3199  
 Shi, Z. H. 3516  
 Shi, Z. W. 8754  
 Shiao, S. F. 38  
 Shibabaka, Y. 110  
 Shibata, E. 6804  
 Shibata, E. I. 7964  
 Shibata, H. 2963, 11181  
 Shibata, Y. 7610  
 Shibuya, K. 3331  
 Shibuya, S. 437, 6497, 9562  
 Shibuya, T. 2933, 4373  
 Shields, E. J. 4176, 9746  
 Shields, K. S. 9974  
 Shields, V. D. C. 5925-5926, 6397, 9124-9125



- Shiga, M. 10350  
Shigemura, M. 2254  
Shigeoka, T. 5308  
Shii, K. 7513  
Shikha Nair 11194  
Shim, J. W. 54, 7019  
Shimabukuro, M. 8222  
Shimada, H. 3321  
Shimada, I. 7768  
Shimada, M. 2009, 3925, 9336, 10341, 11451  
Shimada, T. 2972, 10394, 10821  
Shimamura, Y. 5685  
Shimanuki, H. 8399  
Shimazaki, Y. 7084  
Shimazu, M. 2694, 7952, 9466, 9478  
Shimizu, H. 8150, 10668  
Shimizu, N. 366  
Shimizu, S. 11513  
Shimizu, T. 1213, 1227, 7035, 10151, 10393  
Shimoda, M. 9154, 10150, 10243  
Shimoda, T. 613-614  
Shimozawa, T. 7073  
Shimura, E. 576  
Shin, D. I. 8931  
Shin, I. 7063  
Shin, S. S. 10248  
Shin, W. K. 7979  
Shinagawa, Y. 6039, 8492  
Shinbo, H. 7031, 7374  
Shinde, D. A. 11659  
Shinde, Y. M. 12047  
Shingare, M. S. 3327  
Shinkai, A. 3207, 4094  
Shinkaji, N. 613-614, 789, 10798  
Shinoda, K. 4013  
Shinohara, A. 5659, 6758  
Shinomiyama, T. 2981  
Shioda, H. 10575, 10577  
Shiokawa, K. 3331, 7541  
Shiomori, K. 3849  
Shionoya, Y. 2907  
Shiotsuki, T. 8346, 10151  
Shiroya, M. 4094  
Shipp, J. L. 1524, 2537  
Shiraga, T. 2417  
Shirai, T. 6360  
Shirai, Y. 4003, 4503, 4778  
Shiraishi, A. 11751  
Shiraishi, H. 475, 5362  
Shirakikawa, S. 765  
Shirazi, M. A. 2326  
Shirk, P. D. 5853, 7097, 9131, 11160  
Shirley, P. 11348  
Shishido, T. 7542  
Shishido, V. M. 10030  
Shivalingaswamy, T. M. 2680  
Shivankar, V. J. 6117  
Shivarama Bhat, P. 1587  
Shivashankar, T. 10258  
Shivhare, P. 2358  
Shobha, A. 10126  
Shoebet, E. 421  
Shoemaker, C. A. 1682  
Shoemaker, D. D. 8340, 11278  
Shofuda, K. 1937  
Shoham, H. 3287  
Shoker, N. I. 3550  
Sholar, J. R. 873  
Shong, J. 9590  
Shono, T. 7583  
Shore, R. F. 1376  
Shorey, H. H. 6407  
Shorrock, B. 245  
Short, J. E. 11209  
Shorter, A. J. 2769  
Shorthouse, J. D. 2760, 4572, 6811  
Shortridge, R. D. 9226  
Showers, W. B. 5070, 11174  
Showler, A. T. 1187  
Shrestha, T. R. 809  
Shrikhande, N. B. 11659  
Shrivastava, A. P. 833  
Shrivastava, M. 3249  
Shrivastava, S. K. 2467, 3492  
Shroff, A. C. 835  
Shroyer, J. P. 5403  
Shtienberg, D. 3579  
Shu, C. 8102  
Shu, C. N. 10919  
Shu, C. Y. 9446  
Shu, S. 5837  
Shu, Z. H. 669  
Shu, Z. L. 7831  
Shuai, Y. Y. 10548  
Shufron, K. A. 539  
Shufron, R. 1427  
Shugart, H. H. 1651  
Shukla, A. 7312  
Shukla, A. K. 6538  
Shukla, R. 6573  
Shukla, R. K. 11769  
Shukla, R. M. 360, 8446  
Shukla, S. P. 2286, 8559  
Shukla, V. D. 6936  
Shukle, R. H. 6435  
Shuler, M. L. 373, 10071, 11512  
Shultz, J. W. 8096  
Shure, D. J. 2655  
Shushunova, A. F. 1388  
Shutt, L. 8550  
Shyamala, B. V. 10228  
Shyamala, M. B. 3258  
Shykoff, J. A. 6848  
Sickmann, T. 1898  
Siddig, M. A. 1198  
Siddiqui, M. 6885  
Siddiqui, M. K. 263  
Siddiqui, M. K. J. 4301  
Siden-Kiamos, I. 4995  
Sideris, D. C. 962  
Sidhu, A. K. 198, 3668  
Sidhu, H. S. 7895  
Sidhu, N. S. 6216  
Sidhu, P. K. 948  
Sidibé, B. 893  
Sidor, C. 1679  
Sieber, M. 8311  
Siebers, J. 4341, 6369, 7603, 8582  
Siebert, J. 10510-10511  
Siegert, K. J. 80, 7049, 11183  
Siegfried, B. D. 88, 453, 4978, 7544, 7546, 10618  
Siegmann, M. 5236  
Siemens, D. H. 4766, 7926  
Sienkiewicz, M. 2364  
Sienkowski, A. 1554, 10898  
Siepe, A. 11290  
Siepel, H. 3034, 9277  
Sighamony, S. 11584  
Sigler, L. 4725  
Sigvald, R. 10063  
Sikdar, S. K. 464  
Sikora, L. J. 11732  
Sikora, R. A. 662, 7841, 10874  
Sikora, Z. 12017  
Sikorowski, P. P. 4657  
Sikoski, P. J. 3376, 8557  
Silbernagel, M. J. 10451  
Sileshi, G. 1447  
Silhacek, D. L. 4352, 4963, 5892, 7055, 9131, 11160  
Siloto, R. C. 2580  
Silva, C. A. D. da 323  
Silva, C. P. 7048  
Silva, D. B. da 9672  
Silva, F. J. 4172  
Silva, F. J. 6248, 9500  
Silva, J. A. A. da 4733  
Silva, J. B. da 4203  
Silva, J. C. 7448  
Silva, J. de 1  
Silva, J. R. B. 2639, 7888  
Silva, L. da 4144, 6227  
Silva, M. F. das G. F. da 6769  
Silva, M. T. B. da 7246  
Silva, N. M. da 8794  
Silva, O. F. 3806  
Silva, P. G. da 2132  
Silva, R. F. P. da 4144, 7451  
Silva, R. F. P. da 9682  
Silva, R. L. X. 8643  
Silva, R. M. 7840  
Silva, S. T. 10030  
Silva de Moraes, R. L. M. 1870, 3876  
Silva-Herrera, T. 8595  
Silva Jr., P. 9378  
Silva Martins, J. F. de 9721  
Silva V., E. 9918  
Silva-Werneck, J. O. 8332  
Silvain, J. F. 2188, 9068, 10678  
Silveira, O. T. 3783  
Silveira-Costa, A. J. 1195  
Silver, A. R. J. 10550  
Silverstone, M. 459  
Silvertown, J. 6859  
Silvestri, E. 2571  
Silvie, P. 8619  
Sim, L. C. 6917  
Simal Gándara, J. 8572  
Simal Lozano, J. 8572, 9601, 10605  
Simandl, J. 8909  
Simbi, C. O. J. 1418  
Simbolon, H. 6777  
Simbolotti, G. 2842, 9093  
Šimek, P. 4157, 5211, 9317  
Šimić, S. 11383  
Simmerl, E. 8228  
Simmonds, M. J. S. 5581  
Simmonds, M. P. 1353  
Simmonds, M. S. J. 525, 1731, 2735, 9549  
Simmons, A. M. 1813, 1996, 2004, 6056, 6236  
Simmons, G. M. 7125  
Simmons, G. S. 6732  
Simmons, L. W. 3962, 5040  
Simmons, P. J. 5921  
Simms, E. L. 1740  
Simões, N. 7399  
Simões, N. J. 2189  
Simon, C. 5989, 7172, 9265, 11235  
Simon, H. 1383, 7053, 8039  
Simón, J. C. 8062  
Simon, J. C. 4403, 6007, 7640, 11719  
Simon, J. E. 3718  
Simon, S. 4583  
Simonetti, G. 10507  
Simoni, S. 5173  
Simonin, H. A. 11651  
Simova-Tošić, D. 1425, 1742  
Simpson, C. D. 11663  
Simpson, D. M. 6470  
Simpson, I. 10657  
Simpson, I. C. 3352  
Simpson, M. R. 10259  
Simpson, S. E. 1777, 9659  
Simpson, S. J. 3810, 3985, 5859, 9281  
Sims, S. R. 9713  
Simwat, G. S. 713-714, 1634, 3622, 7894, 8839  
Sinai, P. 4317  
Sinclair, A. R. 8183  
Sinclair, B. J. 11148  
Sinclair, D. A. R. 8210  
Sinclair, E. R. 2584  
Sinclair, P. H. 2328  
Sinev, S. Yu 11379  
Sinfort, C. 3157  
Sing, S. E. 9010  
Singer, F. 3970  
Singer, M. C. 9899, 11140, 11327  
Singh, A. 95  
Singh, A. P. 10128  
Singh, B. 5466, 6350, 8715, 11924, 11948  
Singh, B. D. 2147  
Singh, B. G. 2825  
Singh, B. N. 1081, 3001, 4980  
Singh, B. U. 561, 8654  
Singh, D. 3593, 5587, 6592, 6829, 8955  
Singh, D. N. 9927  
Singh, G. 578, 6139, 8700  
Singh, G. B. 105  
Singh, G. P. 10395  
Singh, H. 1590, 6888, 9912  
Singh, H. B. 1765  
Singh, H. M. 6615  
Singh, H. N. 3070, 10906, 11946  
Singh, I. 689  
Singh, I. P. 5506  
Singh, J. 1733, 3567, 7665, 9895, 10780  
Singh, J. P. 948, 7896, 8813, 10480  
Singh, K. 2615-2616, 3312  
Singh, K. 4797  
Singh, K. 5748, 6831, 8195, 9558  
Singh, K. C. 3008  
Singh, K. J. 538, 1571, 8500  
Singh, K. M. 9760, 9769-9770, 11936-11937  
Singh, K. N. 1605, 6406  
Singh, K. P. 6759  
Singh, L. R. 6215  
Singh, L. S. 3008, 7798  
Singh, M. 618, 689, 3320-3321, 4926, 7767, 8025, 11776  
Singh, M. K. 7050  
Singh, M. M. 5755  
Singh, M. P. 3504, 4471, 10779  
Singh, N. K. 9459  
Singh, N. N. 3342, 5489  
Singh, O. P. 538, 1571, 1774, 8500  
Singh, P. 1068, 1178, 9963  
Singh, P. P. 5466  
Singh, R. 181, 1590, 1631, 1975, 3204, 5499, 6160, 6548, 6716, 7017, 8715, 9254, 9693, 9805, 10886, 11811  
Singh, R. K. 3567, 9927  
Singh, R. L. 5013  
Singh, R. M. 10774  
Singh, R. N. 122, 725, 9557, 9760, 9769-9770, 11769, 11936-11937  
Singh, R. P. 2367, 3365, 6830, 10651  
Singh, R. S. 5552, 9255  
Singh, R. S. J. 6590  
Singh, S. 1781, 3320-3321, 6211, 6829, 8697, 9748, 10906  
Singh, S. B. 6722, 10905  
Singh, S. D. 932  
Singh, S. J. 594  
Singh, S. K. 5013, 8744  
Singh, S. P. 319, 677, 1446, 3600, 6888, 8783, 11418  
Singh, S. V. 8744, 10813  
Singh, T. 178, 11469  
Singh, T. K. 3008, 7798  
Singh, T. V. K. 9718  
Singh, V. 1607  
Singh, V. S. 6160, 11811  
Singh, Y. 9760, 11786  
Singh, Y. P. 5263, 6480, 7843  
Singh Sandhu, S. 3256  
Singhal, R. 84  
Singhal, S. K. 9014  
Singla, M. L. 11948  
Sinha, A. K. 345, 8475  
Sinha, D. P. 95, 6211, 8282  
Sinha, M. K. 6214  
Sinha, M. M. 7742  
Sinha, P. P. 274  
Sinha, R. K. 10397  
Sinha, R. N. 3713, 6892, 9013  
Sinha, S. N. 5464-5465, 6569, 7765  
Sinha, S. P. 7595  
Sinha, S. R. 8502, 8729, 11585  
Sinha, S. S. 7050, 8446  
Sinkkonen, S. 10969  
Siqueira, J. P., Jr. 7448  
Siqueira, W. J. 3524  
Sirimungkararat, S. 10390  
Siriyan, R. 11498  
Sirohi, P. S. 11824  
Siscaro, G. 11899, 11903  
Sisk, C. B. 6407  
Sisk, T. D. 2024, 3913  
Sisk, W. P. 2080  
Sisodia, K. P. S. 2634



- Sison, M. L. J. 8699  
 Sisselaar, D. J. A. 304  
 Sissoko, F. 9450  
 Sissoko, M. 8658  
 Siti Ramlah, A. A. 6708  
 Sitnik, R. 3817  
 Sivaci-Güner, S. 4323  
 Sivakumar, C. V. 5580  
 Sivaprakasam, K. 6889  
 Sivaprasad, V. 2174, 9471  
 Sivaramakrishnan, S. 4435  
 Sivaramakrishnan, V. R. 2680  
 Sivasankaran, K. 1736  
 Sivčev, I. 1263, 1507, 6464, 6466  
 Siviero, P. 2539  
 Sivinski, J. 1572, 1778  
 Sivinski, J. M. 227, 673, 5547, 6115  
 Siwecki, R. 1665  
 Siwicki, A. K. 8545  
 Sjöberg, K. 11470  
 Sjödin, K. 8908  
 Skaare, J. U. 459, 5352, 8535, 11179  
 Skaer, N. J. V. 5901  
 Skatulla, U. 9294  
 Skelley, P. E. 257, 3033  
 Skerriitt, J. H. 5750, 11678  
 Skiba, P. J. 2935  
 Skibová, I. 6223  
 Skidmore, M. W. 4338  
 Skidmore, R. E. 818  
 Skilbeck, C. A. 4883  
 Skiles, E. S. 11392  
 Skima, F. 9667  
 Skingsley, D. R. 7083  
 Skinner, D. Z. 9745  
 Skinner, M. 2674, 5658  
 Skinner, R. H. 1632  
 Skinner, W. S. 10498  
 Skirkevičius, A. 3052, 3412  
 Skoglund, U. 151  
 Skoneczna, K. 10527  
 Skopec, Z. V. 845  
 Skóra, K. 5328  
 Skorupiński, G. 5519  
 Skøt, L. 4481  
 Skou, L. 8118  
 Skovgård, H. 2506, 2508-2510  
 Skrzypczyńska, M. 1699, 7959, 12017  
 Skubała, P. 9340  
 Skuhřavá, M. 5085  
 Skuhřavý, V. 2705  
 Slabežki, Y. 334  
 Slade, J. B. 581, 6146  
 Sláma, K. 11560, 11683  
 Slansky, F., Jr. 2747, 6047  
 Slater, J. A. 3659, 6099, 11128  
 Slatin, S. L. 7453  
 Slavicek, J. M. 1253  
 Slawin, A. M. Z. 1731  
 Slay, M. W. 11762, 11762  
 Slaymaker, P. H. 4139, 11964  
 Slaytor, M. 1234, 5187  
 Sloboda, J. A. 6141  
 Sleeswijk, A. W. 427  
 Sleiderink, H. M. 10610  
 Slessor, K. N. 1890, 4379, 7058  
 Śliwiński, Z. 1154  
 Sloane, L. 11991  
 Sloderbeck, P. 8627  
 Sloggett, J. J. 2197  
 Sloggett, R. F. 3710  
 Slooff, W. 5318  
 Siores, S. B. 3336  
 Slosser, J. E. 8844, 9959  
 Slovák, M. 5942, 10804  
 Ślusarski, D. 11250  
 Smaghe, G. 455, 691, 3410, 4266, 9651, 11591  
 Small, M. J. 2344  
 Smalley, E. B. 10966  
 Smallwood, P. D. 5178  
 Smart, G. C., Jr. 4756, 5250, 8417, 10449  
 Smart, L. E. 4473, 5400  
 Smartt, J. 1791  
 Smedley, S. R. 3674, 4895  
 Smelt, J. H. 11676  
 Smelyanets, V. 6445, 6450, 6791-6792  
 Smetana, A. 2832  
 Smetánková, M. 6422  
 Smit, M. P. 11228  
 Smigielski, A. 4196  
 Smiljanić, D. 1742  
 Smilowitz, Z. 4261, 6552, 7756, 8495  
 Smirnova, M. P. 11406  
 Smit, N. E. J. M. 11799  
 Smita Banerjee 10520  
 Smith, A. D. 2301, 4444  
 Smith, A. J. 10687  
 Smith, B. D. 580, 8682  
 Smith, B. H. 4108  
 Smith, B. J. 4578, 5542  
 Smith, C. 1384, 2775, 8534  
 Smith, C. M. 1289  
 Smith, C. R. 3748  
 Smith, D. 7350, 7433  
 Smith, D. A. S. 1137, 3114, 4034  
 Smith, D. B. 7298-7299  
 Smith, D. R. 55, 4875, 4922  
 Smith, D. S. 9355  
 Smith, E. L. 3443, 9686  
 Smith, E. S. C. 1565  
 Smith, F. G. 135  
 Smith, G. 8425  
 Smith, G. P. 3275, 8407  
 Smith, G. S. 7216, 8818  
 Smith, H. 7243  
 Smith, H. A. 4105  
 Smith, H. S. 9230  
 Smith, J. E. 1813  
 Smith, J. L. 5185  
 Smith, J. N. M. 3290  
 Smith, J. S. 4793  
 Smith, J. W. 9957  
 Smith, J. W., Jr. 6187, 6719, 9704  
 Smith, L. 6186  
 Smith, M. A. H. 174  
 Smith, M. E. 3444  
 Smith, M. J. 1129  
 Smith, M. R. B. 3085  
 Smith, M. T. 707  
 Smith, M. W. 2054  
 Smith, P. A. 6387  
 Smith, R. 7136  
 Smith, R. F. 9839  
 Smith, S. 9953  
 Smith, S. C. 525, 1731  
 Smith, S., Jr. 505, 11671  
 Smith, S. M. 190, 2701, 4721, 7363, 9528  
 Smith, T. G. 6354  
 Smith, T. J. 11663  
 Smith, T. Wontner- 8482  
 Smith, W. A. 5888  
 Smith, W. H. M. 4512  
 Smith, W. W. 8567  
 Smith Meyer, M. K. P. 3746  
 Smithers, C. N. 1165  
 Smithuisler, C. L. 7061  
 Smitley, D. R. 2552, 9991, 10438  
 Smits, P. H. 7395, 7417, 7435, 7993  
 Smittle, B. J. 1776, 11285  
 Smolik, S. M. 7144  
 Smolka, S. E. 7603  
 Smyth, C. A. 3436  
 Smyth, W. F. 462  
 Sneath, P. H. A. 6939  
 Snedaker, S. C. 11673  
 Snedden, A. W. 8114  
 Snedden, W. A. 7032  
 Sneh, B. 4527  
 Snell, T. W. 2073, 10611  
 Snellen, H. 224, 1092, 3967  
 Snider, R. J. 5818  
 Śniegowski, P. D. 1058, 7114  
 Snodgrass, G. L. 707, 4662  
 Snoo, G. R. de 427, 5285, 7564  
 Snook, M. E. 558, 1606, 2432, 9706  
 Snow, D. D. 2377  
 Snow, J. W. 253  
 Snyder, J. C. 4528, 9596  
 Snyder, J. J. 9409  
 Snyder, J. L. 9410  
 Snyder, M. A. 12013  
 Snyder, M. J. 2915, 7047  
 Snyder, W. E. 210  
 Soares, A. 4892  
 Soares, G. G., Jr. 10437  
 Soares, H. X. 2144  
 Soares, J. J. 1628, 5613-5614, 8831, 9950  
 Sobeiha, A. K. 8737-8738  
 Sobhian, R. 826, 2750, 8977  
 Sobolewski, J. 1513  
 Sobral, B. W. S. 9497, 10440  
 Sobrinho, R. B. 5613  
 Socias Viciania, M. 6391  
 Socorro Monzón, A. R. 6824  
 Sodagar, N. N. 1579  
 Sodhi, R. S. 5426  
 Soekotjo, W. S. 1654  
 Soetaert, P. 2162  
 Soga, T. 10405  
 Sogawa, K. 4445-4446, 7228, 10731, 11749  
 Sogin, M. L. 10362  
 Sohal, R. S. 81, 963  
 Sohati, P. H. 4110  
 Sohi, A. S. 6980  
 Sohi, S. S. 9207, 9554  
 Sojitra, I. R. 8748  
 Sokhansanj, M. 3553  
 Sokoloff, P. A. 8303  
 Sokolov, M. S. 2763  
 Sokolov, O. A. 9611  
 Sokolova, N. K. 6910, 6915  
 Sokolowski, M. B. 3971, 7330  
 Sokol'skaya, O. V. 3304  
 Sol, R. 1179  
 Solanki, S. 2603  
 Solayappan, A. R. 1614, 3596  
 Solferini, V. N. 2912  
 Solheim, H. 10962  
 Solignac, M. 168  
 Soliman, A. S. 2323  
 Soliman, S. 6388  
 Solis, M. A. 4831  
 Solomon, J. J. 7467  
 Solomon, K. R. 5106, 9385, 11639  
 Solsoloy, A. D. 12045  
 Soltani, N. 2281, 8601  
 Soltani-Mazouni, N. 8601  
 Sołtyśiak, M. 1551  
 Soman, P. 4435, 7690  
 Somani, L. L. 1971, 2821  
 Somasekar, S. 5230  
 Somen Singh, L. 7798  
 Somerma, P. 2657  
 Sommariva, D. 5639  
 Sømme, L. 747  
 Sommerfelt, M. A. 10427  
 Somogyi, A. 6349  
 Sondahl, M. R. 3524  
 Sone, S. 10352  
 Song, C. 11595  
 Song, C. H. 2522  
 Song, D. L. 1861  
 Song, D. X. 11365  
 Song, G. C. 7214  
 Song, H. Y. 8382  
 Song, J. R. 7861  
 Song, J. X. 8936  
 Song, J. Z. 3569  
 Song, Q. S. 8129, 9203  
 Song, R. G. 3618  
 Song, S. L. 9919  
 Song, S. S. 7769  
 Song, X. H. 7175  
 Song, Y. F. 8673  
 Song, Y. L. 9501  
 Song, Y. Y. 10255  
 Sonmino, A. 6563  
 Sonntag, K. 5216  
 Sonntag, K. C. 8438  
 Sonoda, M. 11680  
 Sonoda, S. 4991  
 Sontakke, B. K. 5489, 9722, 11586, 11744  
 Sood, A. K. 5500, 7739  
 Soon, L. G. 2830  
 Sopp, P. I. 4408  
 Sorensen, A. A. 3721  
 Sørensen, B. Halling-14064  
 Sorensen, J. T. 4728, 8085  
 Soria, C. 6617, 6623  
 Soria, F. J. 6992  
 Soria, S. J. 4203  
 Soriano-Garcia, M. 6400  
 Sorkin, L. 5154  
 Soroker, V. 8140  
 Sorokopudov, V. N. 7829  
 Sørensen, F. F. 11646  
 Sørnscher, E. J. 10427  
 Sosa, M. E. 2391, 6404  
 Sosa, O., Jr. 4636, 10904  
 Sosa-Gómez, D. R. 1472, 5232, 5245, 5594, 6260  
 Sosa-Gomez, D. R. 2485  
 Sotherton, N. W. 832, 5161  
 Soto, J. 11623  
 Soto-Adames, F. N. 5986  
 Sotomatsu, T. 2254  
 Sotoshiro, H. 11501  
 Sottile, L. 931  
 Soulaiges, J. L. 8133  
 Soundarapandian, G. 574  
 Sourakov, A. 11159  
 Souroukis, K. 3036, 9307  
 Sousa, B. M. de 4597  
 Sousa, J. P. 6756  
 Sousa Ramalho, F. de 2639, 7888  
 South Africa, South African Mango Growers' Association 882  
 South Africa, South African Sugar Association Experiment Station 1783  
 Southcott, R. V. 27, 2715, 3448, 8066  
 Southern, D. I. 8229  
 Southgate, H. H. 86  
 Southway, S. E. 4409  
 Southwick, L. M. 9953  
 Southwood, T. R. E. 5018  
 Soutome, A. 8325  
 Souty-Grosset, C. 75  
 Souza, A. C. F. 1504  
 Souza, A. C. F. de 1485  
 Souza, B. 5421, 7016, 8253  
 Souza, B. M. de 4506  
 Souza, J. C. de 3606  
 Souza, M. T. de 10425  
 Souza, N. A. de 717  
 Souza Filho, M. F. de 2724, 4579, 7529, 8792  
 Sowers, D. S. 6633  
 Soya, Y. 10672  
 Spada, G. 11853  
 Spadotto, C. A. 2528  
 Spain, Asociación Interprofesional para el Desarrollo Agrario 1792  
 Spain, Sociedad Española de Entomología Aplicada 10061  
 Spalding, A. 11384  
 Spalding, D. F. 2397  
 Spalding, R. F. 2377  
 Spanedda, L. 1511, 5578  
 Spangler, H. G. 7082, 9386  
 Spanton, T. G. 4819  
 Sparks, D. 8797, 11916  
 Sparks, T. H. 8286, 11351  
 Sparling, D. W. 451  
 Sparrow, H. R. 2024, 3913  
 Sparrow, J. C. 1035, 8199  
 Spasić, R. 1425, 6015  
 Spatz, H. C. 5924  
 Speed, C. B. 11013  
 Speese, J., III 9782  
 Speich, S. M. 2291  
 Speight, M. C. D. 6098  
 Speight, M. R. 2670, 4706, 5634, 9975  
 Speijer, P. R. 662  
 Spence, J. M. 5065, 11263  
 Spence, J. R. 1214, 5102, 5765, 8375  
 Spence, K. D. 85, 4912, 10201  
 Spencer, C. A. 2986  
 Spencer, W. F. 8584  
 Sperlich, D. 929



- Sperling, F. A. H. 3888, 5009, 7124, 9089  
 Sphon, J. 9396  
 Spicer, C. W. 3391  
 Spicer, G. S. 924, 2863, 4927  
 Spielman, D. 1955  
 Spieth, H. R. 5860  
 Spike, B. P. 2441  
 Spiller, D. A. 11440, 11459  
 Spinosa, H. S. 3366  
 Spitteller, M. 511  
 Spitzer, K. 234, 2107  
 Spliid, N. H. 8548  
 Spofford, M. G. 1986  
 Spohr, L. J. 11872  
 Spollen, K. M. 5334, 7816, 9576, 9612  
 Sponagel, K. W. 6728  
 Spooner, B. 11979  
 Spooner, B. M. 2848, 6947  
 Spooner-Hart, R. N. 10801  
 Spork, P. 5047  
 Sportelli, G. F. 11705  
 Spradbery, J. P. 1203  
 Spradbrow, P. B. 2180  
 Spradling, A. C. 79  
 Sprague, K. U. 2974, 8398  
 Spreafico, M. 8509  
 Sprenger, F. 2897  
 Spring, J. L. 2547  
 Springall, D. R. 11210  
 Springate, N. D. 3753, 4716  
 Springer, C. A. 3749  
 Springer, T. L. 8670  
 Springett, B. P. 6020  
 Sproviero, S. 8355  
 Spurgeon, D. W. 9138, 9925-9926  
 Spurgin, P. A. 3151, 9527  
 Squier, M. V. 1365  
 Sradling, D. J. 3079  
 Sree, P. S. 7691  
 Sreedevi, K. 10015  
 Sreedharan, K. 700, 3603  
 Sreekumar, S. 5873  
 Sreenarayanan, V. V. 8021, 11553  
 Sreenivasulu, C. 3349, 4297  
 Sreng, L. 8142  
 Sri Lanka, Agricultural Information Network 9036  
 Sri Lanka, Tea Research Institute 854  
 Sridevi, D. 11611  
 Sridhar, P. 7128  
 Sriharan, S. 9010  
 Srinivas, C. 2460  
 Srinivas, G. 8326  
 Srinivasa, N. 1453  
 Srinivasa Rao, R. 7550  
 Srinivasan, K. 1521  
 Srinivasan, M. 12079  
 Srinivasan, T. E. 1452  
 Srinisk, S. 2608  
 Sriramulu, M. 1473  
 Srivastava, A. K. 3342  
 Srivastava, A. P. 849  
 Srivastava, B. B. L. 1326, 9555  
 Srivastava, C. 7563  
 Srivastava, C. M. 5583  
 Srivastava, C. P. 10538, 10774  
 Srivastava, K. J. 2520  
 Srivastava, K. M. 8729  
 Srivastava, K. P. 8616  
 Srivastava, M. 9693  
 Srivastava, M. K. 3365  
 Srivastava, P. K. 2521  
 Srivastava, P. P. 5872, 7050, 8446, 9157, 10160, 10397  
 Srivastava, R. P. 8025  
 Srivastava, S. 1202, 8025  
 Srivastava, S. C. 8526  
 Srivastava, U. L. 5583  
 Srivastava, U. S. 7987  
 Srot, M. 1644  
 Srygley, R. B. 192, 3961  
 Stabenheimer, A. 966  
 Stäbli, A. 2547  
 Stachowiak, P. 1645  
 Stackebrandt, E. 3283  
 Staddon, B. W. 3792, 4374, 4893, 4905, 9088, 10148  
 Stadelbacher, E. A. 4662  
 Staden, J. van 8818  
 Stadler, B. 4898, 7176  
 Städler, E. 7080  
 Stahl, M. 3729  
 Staines, C. L. 28  
 Stålhandske, P. 3081  
 Stalker, D. M. 7500  
 Stall, R. E. 10449  
 Stam, P. A. 4668  
 Stam, W. T. 11228  
 Stamenković, S. 1426, 1619  
 Stamenković-Bojić, G. 2961  
 Stamenov, M. 1539  
 Stamm, E. 11599  
 Stamopoulos, D. C. 1883, 2526  
 Stamou, G. P. 3128, 3641  
 Stamova, L. 10066  
 Stamp, N. E. 231, 235, 1090, 5858, 6857, 11030  
 Stamper, J. H. 1351  
 Stampfl, A. 6364  
 Stan, H. J. 10663, 11630, 12096-12097  
 Stancil, J. D. 6463  
 Stănculescu, M. 642  
 Stănescu, C. 1838  
 Staneva, E. M. 11863  
 Stang, E. J. 8770  
 Stange, G. 11021  
 Stange, L. A. 10007  
 Stanimirova, L. 5891  
 Stanley-Samuelson, D. W. 140, 2940, 5869, 8146, 9183, 9513  
 Stanosz, G. R. 2677  
 Stansly, P. A. 1977, 3282, 6606, 11574, 11655  
 Stanton, M. 405  
 Stark, A. 914  
 Stark, J. D. 5565, 7521, 7554, 10554  
 Stark, M. 1035  
 Starmer, W. T. 2723, 11261, 11361  
 Starnecker, G. 3850  
 Starr, J. L. 2362  
 Starý, J. 4916  
 Starý, P. 7905, 9668, 12006-12007  
 Staskawicz, B. 9813  
 Staskawicz, B. J. 9619  
 Stasny, T. A. 3727  
 Staten, R. T. 3616, 8344  
 Stäubli, A. 2335  
 Staudacher, H. 8597  
 Stauffer, F. 5683  
 Stauffer, S. L. 4942  
 Staveley, B. E. 9249  
 Stay, B. 8162  
 Stay, F. S. 4328  
 Stea, G. 2200  
 Steadman, J. R. 2491  
 Steart, J. G. 4515  
 Stebbings, H. 4882  
 Stebbins-Boaz, B. 1050  
 Stebnicka, Z. T. 4851  
 Steck, G. J. 2053, 8204, 11256  
 Steele, M. D. 1378  
 Steele, T. 2918  
 Steelman, C. D. 937  
 Steels, P. 2931, 4087, 11196  
 Steenberg, T. 7430  
 Steenhuis-Broers, G. M. 11834  
 Steenis, M. J. van 7233, 9826, 11836  
 Steenland, K. 8531  
 Ștefan, V. 6389  
 Ștefanelli, G. 11854  
 Štefaňska, J. 5097  
 Šteffan, S. A. 11879  
 Šteffek, J. 7379  
 Steffen, K. L. 8731  
 Steffen-Campbell, J. D. 160, 8085  
 Steffens, J. C. 605  
 Steggall, J. W. 6611  
 Steghaus-Kovac, S. 5135  
 Stegner, J. 1130  
 Stehling, S. 9713  
 Steichen, J. C. 258, 1920, 3334  
 Steidle, J. L. M. 11438  
 Steigerwald, K. A. 9316  
 Stein, J. A. 10528  
 Stein, K. J. 3926  
 Stein, S. J. 4703  
 Stein, W. 3702  
 Stein, W. von 3051  
 Steinberg, C. E. W. 4314, 8597  
 Steinberg, S. 7256  
 Steinberger, P. 1307  
 Steinbrecht, R. A. 11145  
 Steiner, C. 4903  
 Steiner, H. 5103  
 Steiner, J. 3225, 5846  
 Steiner, W. A. 7407, 10580, 10630  
 Steiner, W. W. 5221  
 Steiner, W. W. M. 8238  
 Steinger, T. 1755  
 Steinitz, B. 5268  
 Steinke, W. E. 9389  
 Steinkraus, D. C. 2186, 4139, 11964, 11967  
 Steinman, J. R. 8921  
 Steiskal, V. 6121  
 Stejskal, V. 12076, 12083  
 Steller, H. 7037  
 Stelter, H. 910, 5809  
 Stengel, B. 1505  
 Stengl, M. 8151  
 Stenhouse, J. W. 3450  
 Stenzel, K. 4188  
 Stepanov, V. M. 5243, 11517  
 Stephan, W. 1029, 8216  
 Stephen, F. M. 3818, 3863, 9347  
 Stephenson, A. G. 6619  
 Stephenson, G. R. 4489, 5106, 9385, 11639  
 Stephenson, J. C. 4277  
 Stephenson, M. G. 9753  
 Stephenson, R. 6921  
 Stephenson, S. 4226  
 Stephenson, S. L. 11294  
 Stepinska, A. 9398  
 Steponkus, P. L. 8328  
 Sterk, G. 2335  
 Sterling, M. 3102  
 Sterling, P. H. 8318  
 Sterling, W. L. 4393, 4669-4670, 6161  
 Stermitz, F. R. 3861  
 Stern, D. L. 4765  
 Stern, M. 8192  
 Stern, Y. 334  
 Sternick, S. M. 999  
 Stetsenko, V. A. 6420  
 Stettler, P. 5215  
 Stettler, R. F. 7919  
 Stetzer, E. 10220  
 Steven, D. 675, 6692  
 Stevens, G. 6240  
 Stevens, I. D. R. 10674  
 Stevens, L. 2161, 6087  
 Stevens, N. M. 6963, 9734, 11892  
 Stevens, P. J. G. 429  
 Stevens, P. S. 279, 6692  
 Stevenson, J. H. 5315, 11536  
 Stevenson, P. A. 121, 281  
 Stevenson, P. C. 5581  
 Stevenson, R. D. 10261, 11297  
 Stevenson, W. R. 7762  
 Stewart, A. J. A. 6126  
 Stewart, J. G. 4488, 9784, 10800  
 Stewart, J. W. 6467, 8647-8648  
 Stewart, L. 886  
 Stewart, R. K. 1417, 2440, 4110, 8380, 8691, 8693, 8721  
 Stewart, S. D. 2638  
 Steyn, A. 2582  
 Steyn, W. P. 667, 1574, 10888, 10890  
 Sticher, O. 3247  
 Stickland, T. R. 1106  
 Sticklen, M. B. 4492  
 Stiedl, O. 990  
 Stiefel, V. L. 1669  
 Stieglitz, L. 1383  
 Stiekema, W. 9946  
 Stiekema, W. J. 2233, 5234, 8743  
 Stiffel, D. N. 7224  
 Stiling, P. 5706, 10985  
 Stilinovic, C. de 5374  
 Stimpfl, T. 2718  
 Stinner, B. R. 2433, 4420  
 Stinson, C. S. A. 828  
 Stinson, E. R. 9629  
 Stirmanova, N. I. 2529  
 Stobiecki, S. 2060, 2247, 2400  
 Stock, A. J. 1702  
 Stock, M. W. 5666  
 Stock, S. P. 7478-7479  
 Stockel, J. 4575, 10867  
 Stocker, A. 6266  
 Stocker, R. F. 4958-4959  
 Stockhoff, B. A. 6284  
 Stoessel, S. 2204, 7403  
 Stoetzel, M. B. 4591, 4826  
 Stoffella, P. J. 5510, 11825  
 Stohs, S. J. 2287  
 Stoilov, I. L. 11689  
 Stojanović, A. 1742  
 Stoker, R. L. 2072  
 Stol, I. 1142  
 Stoller, E. W. 10722  
 Stollwerck, A. 7140  
 Stolorov, J. 5929  
 Stoltzfus, A. M. 2080  
 Stolz, M. 7597  
 Stonard, M. D. 8568  
 Stone, C. 1695, 2662, 6751  
 Stone, C. R. 11606  
 Stone, G. N. 1666  
 Stone, N. D. 3437  
 Stone, R. 10497  
 Stone, S. E. 1129  
 Stone, T. 9713  
 Stone, T. E. 5868  
 Stonedahl, G. M. 7200, 9075, 11126, 11920  
 Storer, A. J. 10961  
 Storer, J. R. 8949  
 Storey, K. B. 4908, 4911, 6078, 9159  
 Stork, A. 2923, 3417, 10664  
 Stork, N. E. 729, 774, 10072  
 Storlie, C. A. 7757, 11827  
 Storozhenko, S. Y. 8060  
 Störckh, K. F. 4959  
 Story, K. B. 4918  
 Storz, H. 4946-4947  
 Stotzky, G. 4185  
 Stout, J. F. 11202  
 Stout, M. J. 5504  
 Stout, W. L. 3482  
 Stouthamer, R. 3198, 3205  
 Stover, D. 10586  
 Stow, C. A. 3353  
 Stow, D. A. 6781  
 Stowe, S. 11021  
 Stowell, L. J. 7783  
 Stoyenoff, J. L. 732-733, 6746  
 Straalen, N. M. van 1306, 1970, 11605  
 Strachan, W. M. J. 5671  
 Stradling, D. J. 3181, 3955  
 Strambi, A. 1406, 5188, 9205, 10544  
 Strambi, C. 1406, 5188, 9205, 10544  
 Strand, M. R. 104, 6232, 7331, 8112, 8270, 9222  
 Strang, R. H. C. 143, 9212  
 Strathdee, A. 6081  
 Strathdee, A. T. 4011, 8970  
 Strathdee, F. C. 4011  
 Stratopoulou, E. T. 10855  
 Stratton, G. 5154  
 Stratum, P. van 8452  
 Straub, R. W. 4557  
 Strauch, O. 2204, 7403, 7406  
 Strauss, S. Y. 4774-4775, 6842, 7253  
 Street, J. R. 8567  
 Streett, D. 4080  
 Streett, D. A. 363, 4213, 6225  
 Streibig, J. C. 5120, 10500  
 Streitz, B. 10076, 11471



- Strekozov, B. P. 9611  
 Streparola, W. 6880  
 Stribley, M. F. 3341  
 Strickland, J. A. 3839  
 Strien, A. A. van 7443  
 Strohmenger, T. 1650  
 Stroller, E. W. 6470  
 Strom, B. L. 11976  
 Strombom, D. B. 3522  
 Stromborg, K. L. 8537  
 Strømme, E. 9034  
 Strong, D. R. 217, 247, 2752, 5165, 5175  
 Strong, W. B. 12049  
 Stropp, G. 7512  
 Strouts, R. G. 889  
 Struger, J. 4306  
 Strümpel, H. 940  
 Strunnikova, V. A. 147  
 Strunz, G. M. 11001  
 Stuart, J. J. 6435  
 Stuart, R. J. 4182  
 Stuchbury, T. 4764  
 Studens, J. 11991  
 Studier, E. H. 339  
 Stufkens, M. W. 6269  
 Stumpner, A. 11202  
 Sturaro, A. 11766  
 Sturtevant, M. A. 5982  
 Štyer, E. L. 5221  
 Štys, P. 2860  
 Su, C. Y. 612  
 Su, N. Y. 6968, 9588  
 Su, S. H. 8590  
 Su, X. 6788  
 Su, Z. H. 4130  
 Suarez, A. 9646  
 Suárez G., H. 5745  
 Subbaratnam, G. V. 6665  
 Subbotin, S. A. 10452  
 Subchev, M. 5891, 11850  
 Subchev, M. A. 11314, 11689  
 Subeih, A. 11048  
 Subhan, M. 8696  
 Subhash Chander 1592, 11786  
 Subhashini, S. 4369  
 Subrahmanyam, L. 5960  
 Subramanian, A. N. 2347  
 Subramanian, G. 2309  
 Subramanian, K. N. 2825  
 Subramanian, M. 574  
 Subramanian, V. 1445, 7690  
 Subramanya, G. 9253  
 Subramanya, S. 8017  
 Subroto, S. W. G. 6482  
 Subrota 9119  
 Suchita Singh 10906  
 Suchý, V. 11019  
 Suckling, D. M. 397, 3310, 3536, 5293, 5377, 7820, 9654, 11554  
 Suckling, M. 9583  
 Sudarsan, N. 8431  
 Suder, F. 2877  
 Sudesh Jood 10032, 10056  
 Sudha, P. M. 1265  
 Sudha Mathur 852  
 Sudhakar, D. S. L. 9908  
 Sudhir Singh 11117  
 Sudo, S. 5724  
 Sudoi, V. 5590  
 Suedel, B. C. 1379  
 Sueki, K. 10621  
 Suekuni, J. 815  
 Sugar, D. 6651, 9027  
 Sugaya, R. 164  
 Sugayama, R. L. 7999  
 Sugg, P. M. 2013  
 Sugimoto, N. 797  
 Sugimoto, T. 4500-4502  
 Sugimoto, Y. 11178  
 Sugimura, A. 1051  
 Sugiyama, J. 9466  
 Sugiyama, M. 8222  
 Sugiyama, T. 2430, 2714, 10671  
 Sugonjaev, E. S. 10089  
 Sugonyaev, E. S. 5603, 5607  
 Sugumaran, M. 10219  
 Suh, K. I. 3218, 4042  
 Suh, S. J. 11120  
 Suhardjono, Y. R. 7294  
 Suhartawan 6724  
 Suhas, Y. 328  
 Suichmez, M. 1857  
 Suja, J. A. 1929  
 Sujata Mohanty 2962  
 Sujatha, A. 10881  
 Sujatha, M. 9164  
 Sukhanova, M. Z. 8124  
 Sukhija, H. S. 4638  
 Sukhoparova, V. P. 9611  
 Sukul, P. 680, 9633  
 Sukumar, K. 11002  
 Sukumaran, D. 801  
 Sulaiman, M. 637  
 Sulistyanto, D. 7415  
 Sullivan, D. T. 11261  
 Sullivan, H. S. 8398  
 Sullivan, J. 2778  
 Sullivan, M. J. 11969  
 Sullivan, W. 5954  
 Sultan, M. A. 9773  
 Sultanov, R. M. 519  
 Sultatos, L. G. 6366  
 Suma, A. 1588  
 Suma, N. R. 8431  
 Sumbre, G. 93, 9321  
 Sumida, M. 1935, 6212, 7039, 10221  
 Summers, C. B. 9150  
 Summers, C. G. 4226, 6407  
 Summers, M. D. 1003, 9486, 11481  
 Summy, K. R. 4550, 5617, 6740  
 Sumner, H. R. 6462  
 Sumner, L. C. 6443  
 Sun, C. N. 1001, 3812, 5299, 5948, 8504  
 Sun, G. C. 11251  
 Sun, H. X. 10865  
 Sun, H. Z. 8822  
 Sun, J. C. 8179  
 Sun, J. D. 9933  
 Sun, J. H. 2359  
 Sun, J. Z. 5618, 9962  
 Sun, Q. J. 4953  
 Sun, S. C. 145  
 Sun, X. H. 2669  
 Sun, X. P. 4245  
 Sun, Y. Q. 8507, 10206, 10558  
 Sundara Babu, P. C. 3595  
 Sundarababu, P. C. 3666, 8021  
 Sundaram, A. 6337  
 Sundaram, K. M. S. 7321, 7907, 8345, 10973, 11398, 11991  
 Sundaram, N. V. 10801  
 Sundaran, A. K. 7111  
 Sundararaj, R. 21, 1589  
 Sundararaju, D. 678, 1587, 7633  
 Sundby, B. 2354  
 Sunderland, K. D. 6179, 7336, 9445  
 Sunding, D. 10510-10511  
 Sundkvist, H. 6784  
 Sundström, L. 1193  
 Sunita Gupta 6147  
 Sunkel, C. E. 1921  
 Sunnucks, P. 1666  
 Suns, K. 457  
 Suomela, J. 11984  
 Supare, N. R. 8835  
 Suplicy Filho, N. 2724, 4579  
 Sur, R. K. 1882  
 Surakali Ghose 5619  
 Sureau, F. 1084, 12044  
 Surender, A. 6870  
 Surendra Mohan, M. 7882  
 Suresh, G. 6332  
 Suresh, P. 3088  
 Sureshkumar, M. A. 10544  
 Surewicz, W. K. 2160  
 Surgeoner, G. A. 723, 2251  
 Suri, S. M. 3510  
 Suseela, K. P. 834  
 Sushilkumar 7369, 10928  
 Sushma Gupta 6147  
 Susilo, F. X. 6247  
 Šušlík, V. 11987  
 Šušlova, G. N. 1653  
 Süß, A. 8753  
 Süß, L. 6881  
 Šustek, Z. 3075, 7511  
 Šuta, V. 642  
 Šutáková, G. 5223  
 Sutter, G. R. 6456, 8647-8648, 9701  
 Sutton, B. D. 2053  
 Sutton, S. L. 6080  
 Sutton, T. B. 9845  
 Suwan, S. 7054  
 Suwardiwijaya, E. 6482  
 Suzuki, A. 984, 8222  
 Suzuki, A. C. 92  
 Suzuki, I. 2430  
 Suzuki, J. I. 1000  
 Suzuki, K. 114, 1320, 3142, 8027, 10551-10552, 10993  
 Suzuki, M. 10576, 10938, 11629  
 Suzuki, N. 4163, 4165, 7456, 7480, 8718, 10351  
 Suzuki, S. 6643, 9728  
 Suzuki, T. 98, 974, 1000, 2302, 3003, 4335, 4811, 4934, 5181, 6352, 7258-7259  
 Suzuki, Y. 1038, 4151, 7697, 10761, 11269  
 Svab, Z. 7500  
 Svarinsky, M. A. 5243  
 Svatoň, J. 3099  
 Svatoš, A. 5371  
 Svendsen, N. O. 5352, 11179  
 Svensen, A. 10661  
 Svensson, I. 10299  
 Svensson, M. 3081, 9537  
 Svensson, S. A. 3167  
 Sviatny, I. M. 2500  
 Svoboda, J. A. 8166, 8175, 9209  
 Svoboda, M. L. 3398  
 Svoboda, P. 1828  
 Swaans, K. 3967  
 Swain, D. 8031  
 Swain, R. D. 8387  
 Swamiappan, M. 3214, 11928  
 Swamy, Y. M. I. 2773  
 Swan, A. D. 2986  
 Swanson, M. B. 10516  
 Swaran Dhinra 7552, 11611  
 Swarbrick, S. L. 8788  
 Swart, W. J. 760  
 Swartz, R. C. 3377  
 Swastika, N. 6529  
 Swedenborg, P. D. 3231, 7063  
 Sweeden, M. B. 8702  
 Sweet, C. P. M. 4637  
 Sweet, C. W. 3390  
 Sweet, M. H. 3659  
 Swelim, M. A. 2363  
 Swetnam, T. W. 8896  
 Swevers, L. 11162  
 Swida, U. 3886  
 Swiderski, R. 11720  
 Swiger, J. P. 10529  
 Swisher, M. E. 6414  
 Switzerland, Schweizerische Entomologische Gesellschaft 3730  
 Sword, G. A. 3965, 6061, 10204  
 Sydow, F. von 6779  
 Syed, N. I. 355  
 Syed, T. S. 6586  
 Syed Kamaluddin 2468  
 Šýkorová, S. 9679  
 Syller, J. 8707  
 Sylvén, E. 8880  
 Syme, J. H. 8014  
 Syme, P. 891  
 Symondson, W. O. C. 9390  
 Syrett, P. 6849  
 Szafranek, J. 4974  
 Szabad, G. 11549  
 Szabó, I. Cs. 10459  
 Szabó, P. 7332, 10998  
 Szabo, T. I. 11437  
 Szafranski, P. 6994  
 Szántóné, V. M. 7647  
 Szarukán, I. 2565, 4546  
 Szegedi, E. 9872  
 Szegletes, T. 452, 8547, 11615  
 Szegletes, Z. 11615  
 Szekacs, A. 8346  
 Szekely, A. A. 3887  
 Szél, G. 3018  
 Szendrey, G. 9872  
 Szentesi, A. 8968  
 Széke, K. 8243  
 Szeto, S. 10648  
 Szeto, S. Y. 11675  
 Szinetár, C. 3019  
 Szmidt, A. 2713  
 Szócs, G. 2389, 2565, 4360, 4546, 9652, 10483, 11689  
 Szolajka, E. 10194  
 Szubartowska, E. 2343, 7562  
 Szejda, J. 1298, 1501, 1513, 1515, 10816, 11806  
 T. Piza, Jr., C. de 8792  
 Tabashnik, B. E. 4206, 5222, 6057, 7382, 7526, 9510, 9566, 9568, 9576, 9612, 11588, 11592  
 Tabche, L. Martínez- 8521  
 Tabe, L. M. 2777  
 Taberner, A. 9030  
 Tabosa, J. T. 2431  
 Tabucanon, M. S. 10606  
 Tabuchi, T. 3340  
 Tachibana, H. 523  
 Tachibana, M. 7456, 7480, 8718  
 Tachikawa, M. 5331  
 Tada, S. 150, 4952  
 Tadas, P. L. 8834, 8836-8838  
 Tadera, K. 8613  
 Tados, A. W. 8617  
 Tagahara, K. 5383  
 Tagore, A. A. 5025  
 Taha, A. A. 7442  
 Tahtasakal, E. 3413  
 Tahvanainen, J. 2668, 5375, 7923  
 Tai, D. L. 8668  
 Tai, G. C. C. 3873  
 Taira, H. 5195, 5951  
 Tait, S. M. 745  
 Taiti, S. 2040  
 Taiwan, Food and Fertilizer Technology Center for the Asian and Pacific Region 861  
 Taiwan, Taiwan Agricultural Research Institute 2808  
 Tajak, R. C. 11475  
 Tajovský, K. 7251  
 Takabayashi, J. 4354-4355, 4933, 9696  
 Takachi, C. Y. 1472  
 Takada, H. 797, 4841  
 Takada, N. 7135, 7372, 10215  
 Takafuji, A. 87  
 Takagaki, T. 5289  
 Takagi, S. 5808, 7000  
 Takagi, Y. 10551  
 Takahara, S. 7768  
 Takahashi, A. 4448, 7705-7706, 10474  
 Takahashi, C. S. 3434  
 Takahashi, F. 3219, 5180, 7165, 8902  
 Takahashi, H. 7538  
 Takahashi, I. 8920, 10576  
 Takahashi, K. 10576, 11751  
 Takahashi, M. 2140, 6203, 8996, 9575, 11463  
 Takahashi, S. 4355, 4933, 9696  
 Takahashi, S. Y. 92, 94, 2907  
 Takahashi, Y. 2225, 6342, 7540, 10847  
 Takai, M. 110, 4373  
 Takakura, K. 4807  
 Takakura, S. 7338  
 Takamiya, K. 465  
 Takamizawa, K. 3003  
 Takamura, K. 5362  
 Takanaka, A. 10573  
 Takanashi, M. 10423  
 Takanaka, K. 9319  
 Takanaka, T. S. 2971  
 Takao, H. 4276  
 Takata, Y. 7480  
 Takayama, C. 9550  
 Take, L. T. 4013  
 Take, T. 5438



- Takechi, T. 5685  
 Takeda, H. 7177, 9989  
 Takeda, M. 10269  
 Takeda, N. 352, 1227, 3251, 7035, 12036  
 Takeda, R. 370, 4160  
 Takeda, S. 134, 4923, 7034, 7157, 9146, 9575, 10151  
 Takehara, K. 11492  
 Takematsu, A. P. 2724, 4579  
 Takesue, Y. 11177  
 Taketsune, A. 7165, 8902  
 Takeuchi, J. 12036  
 Takeuchi, K. 4165, 6251  
 Takeuchi, M. 1744  
 Takeya, R. 8119, 8121  
 Takii, S. 5249  
 Takimoto, M. 6278  
 Takiya, S. 1038, 11269  
 Talamé, M. 10831  
 Talbert, R. E. 5756  
 Talebi, K. 491  
 Talekar, N. S. 2126, 2525, 7498  
 Tales, E. 8574  
 Talses, V. 5893  
 Talhouk, A. S. 5386  
 Tallamy, D. W. 6621  
 Talley, S. E. 11986  
 Talösi, B. 6257  
 Talpur, M. A. 1609, 6620  
 Talukdar, D. 3932  
 Talukder, F. A. 4794, 6279, 6487  
 Tam, S. 12009  
 Tamen-Smith, L. 8176  
 Tamhankar, A. J. 9120, 11793, 11839  
 Tammaru, T. 9181  
 Tamò, M. 6547  
 Tamura, H. O. 11177  
 Tamura, Y. 10575, 10577  
 Tan, A. 9930  
 Tan, F. J. 6317  
 Tan, G. H. 484  
 Tan, J. G. 5300, 6317  
 Tan, R. N. 10848  
 Tan, R. X. 6402  
 Tan, S. 4401  
 Tan, S. G. 6488  
 Tan, S. H. 9674  
 Tan, Y. F. 9501  
 Tan, Y. J. 3453  
 Tanabe, H. 7583  
 Tanabe, S. 2347, 3367, 3380, 4789, 5328, 5343, 7617, 8558  
 Tanahara, A. 10348  
 Tanaka, A. 7699  
 Tanaka, F. 568, 4074, 7710, 10732  
 Tanaka, H. 1064, 2834-2835, 5071, 10215  
 Tanaka, K. 2110, 5443, 5724, 11198  
 Tanaka, M. 6005  
 Tanaka, S. 3840, 3875, 3924, 4962, 8147, 9550, 10118, 10378  
 Tanaka, T. 171, 3944, 4117, 7540, 11181, 11207  
 Tanaka, Y. 134, 6212, 7034, 10149, 10151, 11221  
 Tanasičuk, V. N. 4829  
 Tandale, M. B. 2439  
 Tandi, B. L. 9772  
 Tandon, G. S. 11658  
 Tandon, P. 3350  
 Tandon, P. L. 5475, 7227, 7857  
 Taneyhill, D. E. 1135  
 Tang, D. S. 1508  
 Tang, D. W. 10675  
 Tang, H. 1210  
 Tang, J. 4448, 6787, 11144, 11750  
 Tang, J. D. 10539-10540  
 Tang, M. Y. 3027  
 Tang, P. H. 2055  
 Tang, T. Y. 9451  
 Tang, X. J. 8125  
 Tang, Y. Q. 4593, 11112, 11898  
 Tang, Y. Z. 8292  
 Tang, Z. H. 8498  
 Tangtrongpiros, J. 2283  
 Taniai, K. 5882, 8222, 9152, 10221  
 Tanigoshi, L. K. 2219, 2511, 4037, 8368, 8452  
 Taniguchi, E. 8119, 8121  
 Taniguchi, T. 5685  
 Taniguchi, Y. 8100  
 Tanikawa, A. 1844  
 Tanimura, T. 4983, 11200  
 Taniyama, T. 6386, 7596, 7612  
 Tanksley, S. D. 3525  
 Tanner, D. K. 11625  
 Tanoue, K. Y. 2800  
 Tanwar, R. K. 3589, 5586  
 Tao, L. Y. 2449  
 Taper, M. L. 1667  
 Taphorn, D. C. 11668  
 Tapia P., R. 3937  
 Tapp, H. 4185  
 Tappertzshofen, S. 11831  
 Tarar, J. L. 4804  
 Tarazona, J. V. 11395  
 Tarmann, G. M. 9059-9060, 9069  
 Tarochione, L. J. 9713  
 Tarsitano, M. S. 200  
 Tartari, G. 5363  
 Tartes, U. 2902  
 Tasca, M. 2930, 9504  
 Tashiro, M. 10221  
 Tasiyas, J. 2589  
 Tassan, R. L. 7870  
 Tassart, V. 9879  
 Tatár, J. 10459  
 Tatar, M. 3025, 7158, 11166  
 Tatara, A. 10355, 11581  
 Tatchell, G. M. 5829, 6657, 7670, 10687  
 Tate, K. 6801  
 Tatei, K. 1005  
 Tatman, K. M. 2666  
 Tatsukawa, R. 2347, 2386, 3367, 3380, 4789, 5328, 5343, 7617, 8558  
 Tatsuki, S. 4007, 9182, 10960  
 Tatsuki, Y. 1227  
 Tatsuta, H. 4890  
 Tattersfield, P. 7378  
 Tauber, C. A. 317, 2136, 6071, 11442  
 Tauber, M. J. 317, 2136, 6071, 11442  
 Tauro, P. 8034  
 Tauscher, B. 10358, 11539  
 Tautz, D. 11138  
 Tautz, J. 1082, 5133, 7188  
 Tavares Filho, J. J. 2431  
 Tavella, L. 11865  
 Tavemier, J. 11988  
 Taware, S. P. 2628  
 Tayebi, J. 3324  
 Taylor, A. 1546  
 Taylor, A. D. 3210  
 Taylor, A. M. 1321  
 Taylor, C. F. 5867  
 Taylor, D. H. 5162, 10762  
 Taylor, G. S. 5104, 7040, 9301  
 Taylor, J. L. 10803, 11434  
 Taylor, J. W. 6782  
 Taylor, M. S. 5829  
 Taylor, P. B. 349, 9424  
 Taylor, P. L. 4402  
 Taylor, P. W. J. 2608  
 Taylor, R. 10342  
 Taylor, R. A. J. 3156  
 Taylor, R. W. 4085, 8101  
 Taylor, R. W. D. 5282  
 Taylor, S. J. 930  
 Taylor, S. P. 9992  
 Tchernitchin, A. N. 11623  
 Te Velde, E. 11636  
 Teakle, D. S. 2608  
 Teal, P. E. A. 8141, 9173, 9176, 9225, 10161, 11693  
 Teale, S. A. 4377, 4729, 11095  
 Teare, I. D. 4468  
 Tebayashi, S. 4811  
 Techler, I. B. 6202  
 Technau, G. M. 7131  
 Tedardi, C. R. 4504-4505  
 Tedders, W. L. 2122, 4609  
 Teerink, J. A. 829, 2726, 5016, 12059  
 Teerling, C. R. 212, 7958  
 Teetes, G. L. 560, 1450, 4431, 4433, 5997, 6472  
 Tejada, A. W. 1459  
 Tejas, A. 5149  
 Telfer, W. H. 130  
 Telford, S. R. 3919  
 Teli, V. S. 5481, 11601, 11804  
 Temblay, E. 8370  
 Tembo, E. 6896  
 Temel, O. 1317  
 Temime, A. B. 6555  
 Temnykh, S. V. 52  
 Temple, M. P. 5858  
 Tenbrink, V. L. 7965, 10996  
 Teng, P. S. 2464, 3451, 7714  
 Tengecho, B. 6408  
 Tenhumberg, B. 7662, 8625  
 Teninges, D. 11265, 11486  
 Tenow, O. 4691  
 Teo, L. H. 5877  
 Téocchi, P. 2043  
 Tepass, U. 155, 7013  
 Tepedino, V. J. 2888, 10617  
 Ter Borg, S. J. 8035  
 Ter Haar, M. 4562  
 Teramoto, T. 7698  
 Terasawa, S. 4807  
 Terayama, M. 290  
 Terlezkaya, Y. T. 6217  
 Terol, J. 1377  
 Terra, W. R. 3817, 7044, 7048, 11180  
 Terrace, T. E. 6163  
 Terry, A. S. 5276  
 Tersch, M. A. von 7453  
 Tertuliano, M. 609, 4498, 5480, 8712  
 Tertya, G. P. 6202  
 Tesch, M. J. 10195  
 Teschke, K. 5342  
 Tessier, D. M. 3543  
 Tette, J. P. 9842  
 Teulon, D. A. J. 1150  
 Teulon, D. J. 10955  
 Deutsch, G. 4063  
 Tewari, D. N. 5680  
 Tewari, S. K. 11205  
 Tezuka, M. 10740  
 Thakara, H. S. 10772  
 Thakare, H. S. 8835  
 Thaker, A. M. 8541  
 Thakur, J. C. 9795  
 Thakur, M. L. 1335, 3625  
 Thakur, N. 8528  
 Thakur, R. K. 11460  
 Thakur, S. 2734  
 Thakur, S. G. 12047  
 Thakur, S. P. 2398  
 Thakur, S. S. 594  
 Thaler, J. 11875  
 Thaler, K. 915, 11096, 11929  
 Thalji, R. 6166  
 Thalji, R. 1597  
 Thamaiah, B. M. 5752  
 Thamburaj, S. 3512  
 Thammiraju, N. B. 4596  
 Thangavelu, K. 360, 725, 3005, 3241-3242, 5872, 9157, 9298, 9341, 9557, 10140, 10160, 10397  
 Thao, V. D. 2386  
 Thapa, M. P. 809  
 Thapar, S. 8565  
 Thatheyus, A. J. 5704  
 Thaxton, P. M. 2630  
 Theiss, S. 1103, 4057, 5068, 5166  
 Thenmozhi, K. 10094  
 Theophilidis, G. 5928  
 Theopold, U. 10367  
 Theunissen, J. 97, 615, 7771  
 Thiagarajan, V. 6213, 8401  
 Thibaud, J. M. 8308  
 Thibout, E. 2238  
 Thicoipé, J. P. 1274  
 Thiede, B. 1367  
 Thielen, R. van 8984  
 Thieme, T. 5103, 9787  
 Thiéry, D. 5694, 5742, 9278  
 Thiery, D. 4382, 11019  
 Thies, M. L. 3357  
 Thimmanagoud, B. R. 4650  
 Thindwa, H. P. 5997, 6472  
 Thireau, J. C. 10278  
 Thistlewood, H. M. A. 4560  
 Tho, T. H. 7697  
 Thoency, W. T. 1685  
 Thom, E. R. 6509  
 Thomas, A. W. 5678  
 Thomas, C. D. 8989, 9354, 11014, 11140  
 Thomas, C. R. 6204  
 Thomas, D. B. 8385, 11538  
 Thomas, D. R. 8543  
 Thomas, G. 5236  
 Thomas, G. M. 5678  
 Thomas, J. 3348, 6827, 9910, 11068  
 Thomas, J. A. 9354, 10282  
 Thomas, J. C. 6523  
 Thomas, J. D. 1474, 4132, 7731  
 Thomas, J. S. 6715  
 Thomas, M. B. 1278, 3293  
 Thomas, M. C. 2691, 5385, 5702, 10325, 11135, 11978  
 Thomas, P. 6891  
 Thomas, R. B. 12012  
 Thomas, R. C. 6104, 6794  
 Thomas, R. L. 5107  
 Thomas, S. R. 7496  
 Thomas, W. P. 531  
 Thomas, W. T. B. 10065  
 Thomas-Orillard, M. 9494  
 Thomaser, A. 9332  
 Thomasson, G. L. 3326  
 Thomazini, M. J. 6737  
 Thome, C. R. 3444  
 Thomé, J. W. 1241  
 Thompson, A. K. 10065  
 Thompson, B. H. 4319  
 Thompson, C. R. 6851  
 Thompson, D. C. 8988  
 Thompson, D. J. 246, 3224, 4162, 4205, 8387, 9143, 9145  
 Thompson, G. B. 10700  
 Thompson, H. M. 5315, 10583, 11613  
 Thompson, J. 1365  
 Thompson, J. D. 7991  
 Thompson, J. N. 5984, 11316  
 Thompson, L. C. 3180  
 Thompson, L. J. 5082  
 Thompson, M. L. 10627  
 Thompson, P. G. 2519  
 Thompson, R. A. 6483, 11737  
 Thompson, R. T. 3742  
 Thompson, S. N. 4930  
 Thompson, T. S. 480  
 Thompson, V. 4022  
 Thomsen, D. R. 2054  
 Thomsen, L. 7419  
 Thomson, C. 6679  
 Thomson, C. T. 8576  
 Thomson, D. R. 6640, 7164  
 Thomson, L. 11559  
 Thomson, M. S. 6001  
 Thomson, W. T. 6929, 11559  
 Thontadarya, T. S. 1453  
 Thórdardóttir, S. 11649  
 Thornback, N. 4658  
 Thorne, B. L. 5797  
 Thorne, M. J. 4905  
 Thornton, I. W. B. 5700, 7291  
 Thorpe, K. W. 2666, 4684, 4697  
 Thorvilson, H. G. 9495  
 Thouvenel, J. C. 11796  
 Thouvenot, D. 10569, 10579  
 Thresh, J. M. 5598  
 Throne, J. E. 4809, 6876, 9613  
 Thrower, L. W. 10174  
 Thuat, N. C. 7697  
 Thummel, C. S. 7137  
 Thummell, C. S. 8225  
 Thungradbeab, M. 10390  
 Thurber, D. K. 5642  
 Thurston, G. S. 1247  
 Thwaite, W. G. 6276



- Thyagaraja, B. S. 3830, 8205, 9391
- Thybaud, E. 2342
- Tian, G. 9287
- Tian, Q. P. 9919
- Tian, R. G. 5805
- Tian, S. B. 6956, 10006
- Tian, W. H. 8782
- Tian, Y. 8137, 8139
- Tian, Y. C. 559
- Tiben, A. 10387
- Tiborné, G. 10846
- Tien, N. Y. 8426
- Tietze, F. 1123
- Tigano-Milani, M. S. 1393, 8419, 9497, 10440
- Tigar, B. J. 4800
- Tigges, W. T. 1555, 4539, 5535-5536
- Tijan, R. 7139
- Tijink, J. 2350
- Tilio, R. 4336
- Tillemans, F. 3259
- Tiller, D. 2382
- Tilley, J. A. V. 3119
- Tillier, S. 4137
- Tillinghast, E. K. 99, 9156
- Tillitt, D. E. 3355-3356
- Tillman, P. G. 6196, 10587, 11421
- Tilmon, K. J. 210
- Tilson, H. A. 3350
- Tilyabaev, Z. 3816
- Timans, J. C. 9945
- Timmins, C. J. 3079
- Timmins, P. R. 591
- Timmis, K. N. 7472
- Timmons, L. 1055
- Timms, E. 4481
- Tinaut, A. 2096
- Tindall, H. D. 9037
- Ting, J. P. 7504
- Tingey, W. M. 605, 5474, 5484, 6554
- Tingle, F. C. 4667
- Tinti, F. 1013, 2049
- Tintinger, H. 6626
- Tió, M. 6609
- Tío, R. del 6992, 6996, 7898
- Tipping, P. W. 6854
- Tips, A. 3866
- Tirard, A. 9205
- Tironi, P. 7570
- Tirry, L. 7068, 7581
- Tischenko, Z. A. 6915
- Tischler, M. E. 4975
- Tishchenko, Z. A. 6910
- Tishechkin, D. Yu. 1840, 5793
- Tissières, A. 1021
- Titovšek, J. 6795, 8851, 8863
- Tits, M. 698
- Tiwari, R. J. 7730
- Tiwari, S. K. 1325, 10545, 11598
- Tiwari, S. N. 1769
- Tizado, E. J. 6835
- Tjallingii, W. F. 544, 4498, 5460, 7780, 11720, 11818
- Tjälve, H. 11561
- Tkaczuk, C. 8420
- To, S. D. 7299
- To, S. D. F. 7298
- To-Figueras, J. 8564
- Tobe, S. S. 995, 4964
- Tobes, N. 547
- Tobey, J. A. 10524
- Tobin, M. E. 448
- Toda, J. 10671
- Toda, M. J. 3745, 5093, 10109
- Todd, A. D. 7652
- Todd, D. L. 10182
- Todd, J. W. 5241
- Todeschini, R. 10624
- Todorova, S. I. 8436
- Toft, S. 6181, 11458
- Tofts, C. 3179
- Tofts, C. M. N. 1106
- Togashi, I. 731, 1197, 1706, 7349, 9426, 10105
- Togashi, K. 7165, 7955, 8902
- Togola, A. 5433
- Toh, B. H. 10222
- Tohiuddin, G. 3089
- Toit, A. P. du 659, 10872
- Toit, F. du 7651
- Toit, W. J. du 667, 3563, 10888, 10890
- Toitberg, B. D. 1070
- Tojo, S. 4907, 9184, 10198
- Tokmakov, Yu. G. 414
- Toko, M. 610
- Tokoro, M. 2140, 11463
- Tokoro, N. 4094
- Tokuda, M. 5439
- Tokuda, T. 4094
- Tol, R. W. H. M. van 7409
- Tolbert, L. P. 8156
- Toledo, M. C. F. 7558
- Tolhurst, K. G. 7912
- Tolias, P. 1050
- Toll, J. E. 2344
- Tolonen, T. 7644, 10693
- Tolson, K. M. 7580
- Tolstikov, G. A. 518-519, 521, 3304, 8603
- Tom, R. 11533
- Tomalak, M. 813, 2203, 3683, 7380
- Tomalski, M. D. 1267, 8408
- Tomaru, K. 3529
- Tomaru, M. 1031, 3963, 11338
- Tomassoli, L. 10836
- Tomazou, T. 8711
- Tomer, K. B. 8143
- Tomida, I. 5196
- Tomimori, S. 6386, 7596, 7612
- Tomino, S. 1937, 1944, 10215
- Tomioaka, K. 7023, 8148
- Tomita, M. 11177
- Tomiuak, J. 4874
- Tomizawa, M. 7515, 9589, 9615-9616
- Tomkiewicz, J. 2506, 2508-2510
- Tomkins, A. R. 4600, 6638, 6679, 8576
- Tomkins, W. 11684
- Tomley, A. J. 3288
- Tomlin, A. D. 9285
- Tomlin, C. 6930
- Tomlin, E. S. 2706
- Tomlinson, A. 8191
- Tomokuni, K. 4290
- Tomomatsu, T. 10576
- Tomov, A. 7555
- Tompkins, G. J. 4142
- Tompkins, L. 3983, 11315
- Tompot, A. 11605
- Tones, S. 10687
- Tonet, G. L. 9682
- Tong, X. W. 10372
- Tonhasca, A. J. 532, 4538, 4542, 9819
- Tonini, M. 469
- Tonn, C. E. 2391, 6404
- Tonogai, Y. 468, 844, 4805, 4807, 5740, 6886, 7572, 9604
- Tooby, T. E. 2242
- Toong, Y. C. 10195
- Toor, R. F. van 2478
- Topoff, H. 5127
- Topp, E. E. 4326
- Tor, E. R. 11402
- Torale, G. J. 3787
- Torales, G. J. 6210
- Torchio, P. 2315
- Torchio, P. F. 1994
- Torgersen, T. R. 4720
- Toriello, C. 8433
- Torikura, H. 6556-6557, 7748, 9366, 9780
- Toriyama, S. 4151
- Tormos, J. 10002
- Tornisiello, S. M. T. 3938
- Toro, A. A. de 10861
- Toro, M. A. 3056
- Torofder, G. S. 3707
- Toros, S. 1323
- Torrance, L. 7474
- Torre, A. I. de la 11395
- Torre, M. C. de la 2735
- Torregrosa, L. 9865
- Torres, H. 8709
- Torres, J. A. 6767
- Torres, J. L. 2090
- Torres Bauzá, J. A. 7339
- Torres-Vila, L. M. 3066
- Torres Vila, M. 4575
- Torroja, E. 3092
- Torti, C. 3002
- Torto, B. 3836, 5122, 9179
- Toscano, N. C. 6595, 8841, 9823
- Tosevski, I. 12056
- Tosh, C. R. 7032
- Tosi, A. B. 2880
- Tóth, G. 6927
- Tóth, M. 1530, 2389, 2565, 4360, 4546, 9652, 10483
- Toth, M. 11689
- Tóthmérész, B. 6003
- Totland, Ø. 2761, 5705
- Totty, N. F. 979
- Toubon, J. F. 4252, 6084, 9327
- Touhara, K. 3153, 3854, 9208, 11217
- Toullec, J. Y. 5932
- Tourdonnet, S. de 7655
- Tourneux, H. 2635, 6300
- Tous, J. 2589
- Touvinen, T. 7834
- Touyama, T. 2454
- Towers, G. H. N. 430, 10018
- Townley, M. A. 99
- Townsend, A. M. 753, 8886
- Townsend, M. L. 2186
- Townsend, R. J. 6511
- Toyota, I. 6379
- Tozetti, A. D. 8642
- Tözüm-Çalgan, S. R. D. 4323
- Tozzi Nogueira, C. E. 3558
- Traboulsi, A. F. 3426
- Traboulsi, R. 11708
- Trag, A. R. 11468
- Traicevski, V. 4897
- Trainor, L. E. H. 2090
- Tran, B. 3498
- Tran, M. 5776
- Tranfaglia, A. 205
- Trang, V. B. 7697
- Traniello, J. F. A. 1961, 3948, 4082
- Traoré, S. 8812
- Trapateau, M. 1518, 8378
- Traugott, M. S. 5858
- Traut, G. 5974
- Traut, W. 3890, 5004, 5974
- Trautmann, M. 5524, 6642
- Traveset, A. 8888, 8938
- Traynier, R. M. M. 4792
- Treacy, M. 5279
- Trebatická, M. 5304-5305
- Treble, R. G. 480
- Tregea, W. 6805
- Trehane, R. P. 6939
- Trematerra, P. 2685, 4568, 6036, 11046, 11703
- Tremblay, E. 205, 684, 6174, 9237, 9979
- Tremblay, G. B. 11182
- Tremewan, W. G. 9069
- Tremolada, P. 2700, 5347
- Trenczek, T. 10174
- Treseder, K. K. 10289
- Tretyak, A. P. 147
- Trevelin, W. R. 7611
- Treves, D. S. 4921
- Trevisan, O. 10911
- Trevitt, S. 1869
- Triana, M. 10737
- Tribe, D. E. 6233
- Tribhuvan Singh 3243, 11469
- Trieft, N. M. 5368
- Triest, L. 7980
- Trigo, J. R. 7102
- Triguero, N. 1336
- Triltsch, H. 7428, 7658
- Trim, A. J. 2299
- Trimarchi, J. R. 5861, 9187
- Trimble, J. E. 7066
- Trimble, R. M. 646, 6660
- Trimmer, B. A. 7078
- Trinci, A. P. J. 4154
- Trindade, M. L. B. 3934
- Tripathi, A. K. 95, 6211, 8606, 8612
- Tripathi, G. 2286
- Tripathi, G. M. 2607
- Tripathi, R. D. 6819
- Tripathi, S. C. 1732, 3675
- Tripathi, S. R. 1975
- Tripathy, M. K. 5440
- Trishla Gupta 4635
- Trivedi, T. P. 3503, 5475, 7227
- Trjapitzin, S. V. 5802, 7342
- Trjapitzin, V. A. 10089, 11378
- Troendle, M. A. 11298
- Troger, H. 4452
- Troiano, J. 9640
- Trojan, P. 10249
- Trojanowski, H. 3009
- Tronchetti, F. 11717
- Trono, M. 11593
- Trosclair, M. M. 2897
- Trost, M. 10304, 10304
- Trostle, G. 1994
- Trotman, R. B. 5733
- Trottin-Caudal, Y. 1518, 8378, 10823
- Troubridge, J. T. 9855
- Trowell, S. C. 11217
- Trower, T. M. 493
- Trubiani, O. 1255
- Trudeau, D. 104
- Trudel, R. 9406
- Trujillo-Arriaga, J. 3440
- Truman, J. W. 5864, 10196
- Trumble, J. T. 635, 1412, 4260, 4526, 7504, 7789-7790, 10023, 10481, 11336, 11582
- Trumbule, R. B. 8944
- Trzebitzky, C. 11506
- Tsacas, L. 2516
- Tsai, M. C. 5201
- Tsai, S. F. 3278
- Tsai, S. Y. 10419
- Tscharnke, T. 1125, 1745, 1753, 4462, 9737, 11344
- Tschinkel, W. R. 7222, 9295, 11407
- Tseng, C. S. 6100
- Tseng, Y. C. 8724
- Tseng, Y. H. 3101, 5549, 10490
- Tshernyshev, W. B. 9417
- Tshuma, J. 1232
- Tsilias, A. 8234
- Tsolakis, C. 8623
- Tsolakis, H. 5174, 8058
- Tsourgian, A. 8800
- Tsuboi, S. 3331, 7541, 10352
- Tsubota, S. I. 8211
- Tsuchida, K. 7135, 8176, 10215
- Tsuchihashi, H. 494
- Tsuchiya, D. 2694, 7952
- Tsuchiya, M. 11891
- Tsuchiya, S. 4273, 7551, 10983
- Tsuchiya, Y. 2374, 9602, 10574
- Tsuda, K. 4191, 9489
- Tsuda, S. 3529
- Tsuda, T. 1352
- Tsuji, K. 1192, 11164
- Tsuji, T. 2454
- Tsukada, M. 51, 7637, 10000
- Tsukada, R. 2749, 7985
- Tsumuki, H. 2417, 4013, 4936, 5438
- Tsumura, Y. 468, 844, 4805, 4807, 5740, 6886, 9604
- Tsuneda, A. 4725
- Tsunoda, K. 2140, 6203, 8996, 11463
- Tsunoda, T. 215
- Tsurubuchi, Y. 11497
- Tsurusaki, N. 2967
- Tsuruta, R. 6341
- Tsuruchi, T. 5726
- Tsusué, M. 7104
- Trisumi, J. 10561
- Tsutsumi, S. 4952
- Tsutsumi, Y. 7768
- Tu, C. M. 10647
- Tu, M. P. 2003, 11215
- Tu, Z. 9306



- Tuan, S. J. 2074, 2213, 10407  
 Tubbs, P. K. 6939  
 Tublitz, N. J. 5906  
 Tucić, N. 8237  
 Tuck, K. R. 728  
 Tucker, G. R. 11706  
 Tucker, J. B. 127  
 Tucker, M. R. 5069, 6277  
 Tuda, M. 2009-2010, 10341, 11451  
 Tudor, V. A. 11246  
 Tufail, N. 2280  
 Tufail Ahmad 6725  
 Tugmon, C. R. 9156  
 Tugwell, N. P. 709, 2311  
 Tukey, R. H. 11656  
 Tukizi, K. 9728  
 Tully, J. G. 3004  
 Tumlinson, J. H. 2428, 7893, 8141, 9176, 10161  
 Tunç, İ. 1147  
 Tunçbilek, A. Ş. 11286, 12077  
 Tunga, T. K. 4660  
 Tunswan, K. 1404, 6401  
 Tuomi, J. 400  
 Tuovinen, T. 652  
 Turak, E. 2071  
 Turakhanov, U. A. 3816  
 Turbrian, E. 9876  
 Turchin, P. 1685  
 Turco, P. 7804  
 Turgeon, J. J. 5627, 7934  
 Turillazzi, S. 2880  
 Turin, H. 1114  
 Turkiewsky, L. 10768  
 Turlings, T. C. J. 7893  
 Turnbull, A. 9634  
 Turnbull, S. A. 6338  
 Turner, A. P. F. 8587  
 Turner, B. D. 8020  
 Turner, B. M. 1880  
 Turner, C. E. 2750  
 Turner, D. 7656  
 Turner, D. E. 7660  
 Turner, S. J. 2143  
 Turnipseed, S. G. 11969  
 Turnock, W. J. 6338, 11540  
 Turmini, D. 12073  
 Turrio-Baldassarri, L. 4312  
 Tursman, D. 1063  
 Turuleva, L. M. 2504  
 Tuskes, P. M. 8677  
 Tutta, C. 8517  
 Tveten, M. S. 9377  
 Tweed, D. R. 7943  
 Twidwell, E. 5781  
 Twine, P. H. 3688  
 Tyazhelova, T. V. 4359  
 Tybirk, K. 6772  
 Tyler, G. 10077  
 Tyler, J. 6926  
 Tyler, R. H. 4926  
 Tyler, S. J. 10602  
 Tylka, G. L. 6539, 10764-10765  
 Tyre, A. J. 1741, 8000  
 Tyree, M. T. 2674, 4581  
 Tyrrell, D. 4197  
 Tyson, D. 3723  
 Tyuryukanova, G. K. 9611  
 Tzankov, G. T. 11314  
 Tzean, S. S. 5235  
 Tzeng, D. D. S. 3469  
 Tzeng, H. C. 3469  
 Tzeng, Y. 10413  
 Uchida, A. 1051  
 Uchida, M. 1051, 2302  
 Uchida, S. 11492  
 Uchidoi, T. 11579  
 Uchoa-Fernandes, M. A. 4531, 8735  
 Ucko, O. 3528  
 Udayabhanu, K. G. 7882  
 Udayagiri, S. 10716  
 Udayasekhara Rao, P. 4131  
 Udayasuriyan, V. 7468  
 Uden, P. C. 7308  
 Uechi, T. 7480  
 Ueda, H. 11251  
 Ueda, Y. 611, 1891  
 Uehara, K. 7977  
 Uehara, T. 5668  
 Uematsu, H. 7513  
 Ueng, T. H. 4288  
 Ueng, Y. F. 4288  
 Ueno, R. 3333, 8119  
 Ueno, T. 3944, 4117, 4351, 7553, 10670, 10672  
 Uetz, G. W. 8272  
 Ufodike, E. B. C. 2282  
 Ugarković, D. 1016, 2956  
 Ugolini, A. 7805  
 Uhlen, G. 5366  
 Uhm, K. 7228  
 Uhm, K. B. 7636  
 Úhnák, J. 11628  
 Ujita, K. 4805, 9604  
 Újváry, I. 2565, 10345  
 UK, AFRC Institute of Plant Science Research 2803  
 UK, British Agrochemicals Association 862  
 UK, British Crop Protection Council 5767-5768  
 UK, British Standards Institution 428  
 UK, Natural Environment Research Council 3715  
 UK, Royal Entomological Society of London 6911  
 UK, Scottish Crop Research Institute 2792  
 UK, Working Party on Pesticide Residues 5762  
 Ukwungwu, M. N. 2452  
 Ulber, B. 2130  
 Ulenberg, S. A. 1788  
 Ullah, G. M. R. 3116, 5393  
 Ullah, K. 554, 1444  
 Ullé, J. A. 4529  
 Ullman, D. E. 7476, 8747  
 Ulloa, M. 10904  
 Ulluwishewa, R. 1461  
 Ulu, O. 1148  
 Ulusoy, M. R. 445, 3561, 7205, 7232, 11436, 11895  
 Umamaheswari, A. 4297  
 Umapati Sahay 6214  
 Umarova, T. Ya. 6073  
 Umemura, I. 110  
 Umesh, K. C. 11910  
 Umetsu, K. 1000  
 Umetsu, N. 4272, 4276  
 Umgelter, H. 3729  
 Umlauf, G. 4347, 10968  
 Umore, P. A. 3935  
 Umrani, N. K. 10724  
 Unanaowo, I. E. 9005  
 Underhill, E. W. 1890  
 Underwood, D. L. A. 794, 6993  
 Undirwade, D. B. 3580, 3613  
 Ungar, C. 11543  
 Unger, J. G. 7477, 9542  
 Unnikrishnan, K. R. 2773  
 Unnikrishnan, V. 8516  
 Unnithan, G. C. 10671  
 Unruh, T. R. 4262  
 Uozumi, T. 7468  
 Upadhyay, K. D. 10813  
 Upadhyay, S. 5497, 5698, 7879, 8956  
 Upadhyay, V. B. 9326  
 Upadhyaya, N. M. 2167  
 Upadhyaya, V. K. 1480  
 Upendra Ravi 6870  
 Urano, K. 10635  
 Urano, T. 7948  
 Urban, A. J. 10948  
 Urban, M. 2400  
 Urbášek, F. 4916, 7069  
 Urdaneta, H. 7579  
 Urhan, R. 4859  
 Uri, N. D. 6385  
 Urias Lopez, M. A. 10790  
 Úrsinyová, M. 4227  
 Uruña L., H. 2689  
 USA, American Society for Horticultural Science 866, 2395, 9028, 11063-11064  
 USA, Boyce Thompson Institute for Plant Research 2802  
 USA, College of Agriculture and Life Sciences, North Carolina State University 9024  
 USA, Entomological Society of America 3738, 9524  
 USA, Illinois State Horticultural Society 868  
 USA, Louisiana Agricultural Experiment Station 2799, 2801  
 USA, Louisiana Agricultural Research Station 859  
 USA, Louisiana State University Agricultural Center 860  
 USA, National Cotton Council of America 2812  
 USA, New York State Vegetable Growers Association, Inc. 6908  
 USA, Potato Association of America 5764  
 USA, State Horticultural Association of Pennsylvania 11054  
 USA, Washington State University College of Agriculture & Home Economics 3541, 3545  
 Uscian, J. M. 140, 5869  
 Usha, K. E. 1588  
 Usha Chauhan 7739  
 Usha Mehta 9014  
 Ushchekov, A. T. 11520, 11828  
 Usher, M. B. 3069  
 Ushio, F. 10576  
 Usta G., A. 9725  
 Usui, K. 11200  
 Usui, M. 4272  
 Utami Rahardja 9567  
 Uthaiiah, B. C. 4615  
 Uthamasamy, S. 3611-3612, 5609, 7863, 8501  
 Utzerrum, R. C. B. 671  
 Uygun, N. 445, 1277, 1566, 7205, 7232, 11436, 11895  
 V. Graham, M. W. R. de 1849, 2836, 9049  
 Vaal, M. A. 5318  
 Vacante, V. 8745  
 Vaconcellos-Neto, J. 1093  
 Vadivelu, M. 3596  
 Vadlamudi, R. K. 11485  
 Vágner, M. 11560  
 Vagts, A. 5341  
 Vaidya, D. N. 8684, 9761  
 Vaidya, M. S. 7879  
 Vail, K. M. 288, 4084  
 Vainer, G. P. 4782  
 Vainio, A. 2335, 7396  
 Väisänen, R. 7172  
 Vaishampayan, A. 2312  
 Vaishampayan, S. M. 5054  
 Vaisov, Z. M. 2732  
 Vaissayre, M. 3610, 5294  
 Vaithilingam Sekar 8431  
 Vakharia, V. N. 9236  
 Val, W. M. da C. 10768  
 Valadares, M. C. C. 1393  
 Valaitis, A. P. 8130  
 Valand, V. M. 179, 6677, 9002, 11778  
 Valcárcel, M. 442  
 Valdés, E. 1689  
 Valdez, J. 1863  
 Valdez, J. A. 10830  
 Valdez-Carrasco, J. 11146  
 Vale, J. A. 10570  
 Valencia, E. 4979  
 Valencia, J. 11910  
 Valencia V., L. 10784  
 Valensin, P. E. 2985  
 Valente, V. L. S. 3878, 3895  
 Valentine, B. D. 42  
 Valério, J. R. 1170, 1463, 3480, 7721  
 Valicente, F. H. 1410, 8451  
 Valladares, G. 10982  
 Valladares, G. R. 738  
 Valle, J. I. del 8907  
 Vallejo Cabrera, F. A. 7791  
 Vallentgoed, J. 779  
 Valles, B. 8533  
 Vallett, S. M. 2969  
 Vallo, V. 10804  
 Valterová, I. 8908, 11189  
 Valverde, B. 602  
 Valverde-García, A. 4068, 5503, 9395  
 Van, T. K. 11016  
 Van Achterberg, C. 2842-2843, 2859, 5810, 6984-6985, 9093-9095, 9374, 11108-11109  
 Van Alebeek, F. A. N. 10045  
 Van Alphen, J. J. M. 306, 7345, 10365, 11310  
 Van Antwerpen, R. 7103  
 Van Baaren, J. 5157, 10257  
 Van Beek, T. A. 2923, 3417, 4355, 6582, 7780, 11818  
 Van Beeumen, J. 7068  
 Van Blerk, K. 7980  
 Van Breda, J. M. 3955  
 Van Collier, L. M. 2609  
 Van Dam-Mieras, M. C. E. 11283  
 Van Damme, E. 2621, 9945  
 Van Damme, E. J. M. 8478  
 Van Damme, J. 5124  
 Van de Fliert, E. 577  
 Van de Peppel-Groen, A. E. 11676  
 Van de Veire, M. 2335  
 Van de Zande, J. C. 6137  
 Van Delden, W. 3884  
 Van den Berg, C. 5317  
 Van den Berg, H. 1626, 6050, 6427  
 Van den Berg, J. 3445, 6473  
 Van den Berg, J. H. J. 634  
 Van den Berg, M. A. 2579, 11918  
 Van den Berg, R. 508  
 Van den Berghe, E. 3110  
 Van den Berghe, E. P. 3080  
 Van den Eijnden, M. 2083  
 Van den Heuvel, J. 10463  
 Van den Heuvel, J. F. J. M. 3271  
 Van den Meiracker, R. A. F. 6180  
 Van der Geest, L. P. S. 8420  
 Van der Horst, D. J. 2083, 11199  
 Van der Kleij, H. 5234  
 Van der Linde, T. C. de K. 4632-4633, 6714, 7871, 8810  
 Van der Linden, A. M. A. 10666  
 Van Der Meulen, T. 4545  
 Van der Mheen, H. J. 8964  
 Van der Noll, I. E. 5290  
 Van der Ploeg, M. 1240  
 Van der Pol, J. J. C. 9543  
 Van der Reijden, E. D. 5717  
 Van der Salm, T. 2233  
 Van der Wal, D. 3417  
 Van der Wel, C. 2472  
 Van der Wel, N. N. 332  
 Van der Werf, W. 4561  
 Van der Westhuizen, A. J. 3431  
 Van der Westhuizen, M. C. 3445, 6473, 8678  
 Van der Wilk, F. 3271  
 Van der Wolf, J. M. 7417  
 Van der Zaag, D. E. 10786  
 Van Deventer, P. 2543  
 Van Dijk, T. S. 237  
 Van Dijken, F. R. 6816  
 Van Dongen, S. 4696  
 Van Dongen, W. D. 10505  
 Van Doorn, J. M. 2083  
 Van Dorp, A. G. M. 1240  
 Van Dorp, D. 2644  
 Van Driesche, R. G. 4212, 7753  
 Van Eck, G. T. M. 8589  
 Van Eeden, C. F. 4632-4633, 6714, 7871, 8810  
 Van Emden, H. F. 540, 4404, 4407, 8365, 8949, 10550, 11532  
 Van Epenhuijsen, C. W. 6597  
 Van Eiten, J. L. 6253  
 Van Frankenhuyzen, A. 10952



- Van Frankenhuyzen, K. 364,  
1268, 4192, 7960, 8929, 9568
- Van Gestel, C. A. M. 1970,  
9543
- Van Giessen, W. A. 4052
- Van Haften, T. 1896
- Van Hattum, B. 6370
- Van Hees, W. W. S. 771
- Van Heest, H. P. N. F. 11818
- Van Helden, M. 7780, 11818
- Van Helsing, P. 915
- Van Hemmen, J. J. 4270, 7593
- Van Hensbergen, H. J. 8671
- Van Heurck, P. 8870
- Van Hook, T. 3917
- Van Houten, Y. M. 8452
- Van Huis, A. 3725, 10277
- Van Impe, G. 2399, 7167
- Van Jaarsveld, M. J. 10536
- Van Kerkhove, E. 2931, 4087,  
8146, 11196
- Van Kooij, R. 11636
- Van Lenteren, J. C. 3968, 5258,  
7332, 12098
- Van Lill, D. 2414
- Van Loon, C. D. 600
- Van Loon, J. J. A. 2923, 3417,  
6582
- Van Marrewijk, W. J. A. 2083,  
11199
- Van Melckebeke, J. 616
- Van Minnen, J. 135-136, 1240,  
2152
- Van Moerkerk, H. T. B. 11199
- Van Niekerk, P. 923
- Van Niekerken, E. J. 9652
- Van Noordwijk, A. J. 11980
- Van Noort, S. 672, 1967, 2864,  
8080, 8265
- Van Oers, M. M. 7443
- Van Oostdam, J. C. 5342
- Van Os, E. A. 3406
- Van Puyvelde, L. 4479
- Van Rensburg, G. D. J. 3445
- Van Rensburg, J. B. J. 4632-  
4633, 6714, 7871, 8810
- Van Rijn, P. C. J. 8452, 11834
- Van Roermund, H. J. W. 3968
- Van S. Graver, J. 5774
- Van San, N. 2107
- Van Schagen, J. 3552
- Van Staden, J. 8818
- Van Steenis, M. J. 7233, 9826,  
11836
- Van Straalen, N. M. 1306,  
1970, 11605
- Van Stratum, P. 8452
- Van Strien, E. A. 7443
- Van Thienen, R. 8984
- Van Tol, R. W. H. M. 7409
- Van Veelen, W. 4100
- Van Veldhuizen, A. 2923
- Van Vliet, P. J. M. 508
- Van Vuurde, J. W. L. 7417
- Van Vuuren, S. P. 1570
- Van Welzen, K. 1092
- Van Wieren, S. E. 2644
- Van Wijk, C. A. M. 5723
- Van Wijk, C. A. P. 7779
- Van Wijngaarden, R. 2350
- Van Winden, J. 6139
- Van Wingerden, W. K. R. E.  
1111, 1116, 1119
- Van Wyk, P. S. 4153
- Van Wyk, P. W. J. 4153
- Van Zeeland, M. G. 7398
- Van Zoest, R. 8589
- Van Zuilekom, W. J. 7614
- Vanalia, S. P. 6139
- Vancassel, M. 74
- Vanden Berghe, E. 10303
- Vandenbergh, N. 8083
- Vandenbergh, N. J. 204
- Vandenbussche, D. 2025
- Vander Meer, R. K. 10264,  
11412
- Vandermeer, J. H. 5134
- VanderMeiden, F. M. 1345,  
8580, 10653-10654
- Vandersall, K. S. 210
- Vandervoort, C. 3355-3356
- Vanderwel, D. 971
- Vane-Wright, R. I. 1091, 4937
- Vankataraman, S. 3478
- Vanlerberghe-Masutti, F. 7362
- Vanniarajan, C. 3711
- Vannier, G. 239, 526, 3083,  
11295
- Vanninen, I. 7418
- Vannini, M. 2118
- Vanoost, N. 2789
- Vanparys, L. 2523, 11807-  
11809
- Varama, M. 10188
- Varca, L. M. 1459
- Varela, L. 10853
- Varela, L. G. 2551, 7548
- Vargas, C. 5115
- Vargas, E. 9858
- Vargas, R. I. 3844, 5565, 9940
- Vargas C., H. 9918
- Vargas G., H. A. 5116
- Vargas M., R. 9867
- Vargas-Osuna, E. 315, 330,  
2173, 4146, 6395, 7432, 7624
- Vargo, E. L. 973, 3189, 3807,  
5141-5142, 10272
- Varin, D. 8719
- Varis, A. L. 296
- Varjú, D. 8273
- Varma, A. 3589
- Varma, G. C. 8379
- Varma, R. V. 11514
- Varricchio, P. 9237
- Varshney, R. K. 24, 4868,  
11366
- Varun, C. L. 10906
- Vasanthi Narayanaswami 3820
- Vasaraïnen, A. 1127
- Vásárhelyi, T. 812
- Vasconcelos, H. L. 8643
- Vasconcelos, S. D. 6241
- Vashist, M. 2973, 3906
- Vasilenko, V. 6450
- Vásková, M. 8231
- Vásquez, R. A. 1196
- Vásquez, V. 11623
- Vásquez J., M. N. 2483
- Vassilev, I. 8404
- Vastrad, A. S. 11820
- Vasu, V. 7007
- Vats, L. K. 1640, 6952, 7007,  
8323
- Vaughan, M. K. 11632
- Vaughn, J. L. 8032, 8445, 9511
- Vaupel, J. W. 7158, 11166
- Vavadia, L. D. 1454
- Vaz Nunes, M. 4020
- Vazquez, J. 1021
- Vazquez, P. 2990
- Vazquez-A., M. 4800
- Vázquez-G., L. 1805
- Veal, D. A. 7066
- Veblen, T. T. 3656
- Vecchio, M. C. del 3786, 3912,  
4439
- Veda, O. P. 5054, 8828
- Vedham, K. 11188
- Veelen, W. van 4100
- Veena, P. 2310
- Veenakumari, K. 1563, 9922,  
11887
- Veenstra, J. A. 4954, 11226
- Veenstra, K. H. 10685
- Veer, V. 1814
- Veeranna, G. 6052, 6271, 8369
- Veeresh, G. K. 9917
- Veerkamp, J. H. 11199
- Veerman, A. 4005
- Vega, F. E. 4208, 4214, 9698
- Vega, L. R. 161
- Vega-Rosales, M. I. 9938
- Vehrs, S. L. C. 4590, 9890
- Veiga, A. F. S. L. 1578
- Veire, M. van de 2335
- Veith, M. 7053
- Veivers, P. C. 5187
- Velasco-Negueruela, A. 3319
- Velasquez, F. J. 4860
- Velde, E. te 11636
- Veldhuizen, A. van 2923
- Veleiro, A. S. 10679
- Vélez-Angel, R. 10124
- Velimirović, V. 1680, 6684
- Velloso, A. H. P. P. 4324
- Veloso, V. R. S. 7840
- Velusamy, R. 2458-2459, 7696
- Venables, L. 2652, 4684
- Vencill, A. M. 9782
- Vencovsky, R. 4178
- Venditti, M. E. 1478
- Vendramim, J. D. 7787
- Veningerová, M. 11628
- Venkataraman, L. V. 6128
- Venkataraman, V. 8219
- Venkatesan, S. 3512
- Venkatesh, K. 5889
- Venkatesh, T. 7125
- Venkatesha, M. G. 751, 1201
- Venkateswarlu, K. 3349, 4297,  
9621
- Venkateswarlu, P. 6590
- Venkateswarlu, S. M. 5356
- Vennison, S. J. 8431
- Ventura Garcia, O. 8817
- Venugopal, M. S. 574, 3455,  
5580, 6490
- Venugopal, N. B. R. K. 11635
- Venzon, M. 1069
- Verba, G. G. 270, 11690
- Verbeek, M. 3271
- Verbrugge, D. A. 1346, 3355-  
3356
- Verbsky, J. W. 7123
- Vercambre, B. 4161
- Verdu, M. J. 10376
- Verdyck, P. 2025
- Verechshagina, N. M. 11276
- Verhoeven, J. T. W. 10475
- Verker, R. H. J. 4104, 7778,  
11550
- Verkleij, J. A. C. 8035
- Verma, A. 4513
- Verma, A. K. 4478, 5500, 5851,  
7739
- Verma, A. N. 1446
- Verma, B. R. 5631, 10042,  
11051
- Verma, K. D. 2892, 6091
- Verma, K. P. 6722
- Verma, L. R. 3507
- Verma, M. 8195
- Verma, R. P. S. 9691
- Verma, R. S. 4582
- Verma, S. 2050, 5572
- Verma, S. B. 5013
- Verma, S. C. 597, 726, 2661
- Verma, S. K. 8705
- Verma, S. N. 1774
- Verma, T. D. 5663, 6759
- Vermeulen, H. J. W. 1121
- Vernède, R. 208
- Vernier, P. 8719
- Vernon, P. 880
- Vernon, R. S. 1496, 9825
- Vermooy, C. J. M. 6600
- Versali, M. F. J. 946
- Verspui, K. 1111, 1119
- Verzegnassi, B. 5577
- Vesprini, J. L. 6846
- Vestergaard, S. 4184, 10445
- Vet, J. J. R. M. 7614
- Vet, L. E. M. 224, 1092, 3949,  
3967, 3974, 6043, 9423,  
11311
- Vetter, R. S. 6674
- Vetter, W. 5287, 5346
- Vettorello, G. 1560
- Vey, A. 3339
- Veyrunes, J. C. 7442, 11483
- Via, A. 8022
- Via, S. 6554
- Viaggi, D. 641
- Vialard, J. 7445
- Viana, E. 507, 11654
- Viana, J. M. 4654
- Vicchi, V. 10831
- Vicens, N. 5148
- Vicente, J. 490
- Vick, K. W. 11693
- Vickers, J. E. 2180
- Vickers, N. J. 3976, 11332
- Vickers, P. M. 6660
- Vickers, R. 2549
- Vidal, J. 11717
- Vidal, L. 7611
- Vidal, S. 1225
- Vidal Acosta, M. V. 3759
- Vidari, G. 1401
- Vidlička, L. 7196, 11363
- Vidyaasagar, P. 1445, 3450,  
5427, 5431, 7688
- Vidyaasagar, P. S. P. V. 7633
- Vieau, F. 766, 3178
- Viebahn, M. 5863
- Vieira, M. M. 6419
- Vieira, P. C. 6769
- Vieth, B. 2334
- Viette, P. 9375
- Vietto, L. 8877
- Vig, K. 3125
- Viggiani, G. 4, 2335, 4614,  
4838, 6118, 6172-6173, 6175,  
6659, 7286, 9271, 9907,  
11091, 11826
- Vighi, M. 2700, 8588
- Vigilante, G. 1548
- Viik, E. 520
- Vijai S. Singh 11811
- Vijay Singh 1607
- Vijay Veer 4791
- Vijaya Kumar 6823
- Vijayalectchumy, K. 484
- Vijayaraghavan, S. 1366, 6361,  
11621
- Vijaykumar, S. 690
- Vijftigchild, R. A. N. 4243
- Vijverberg, H. P. M. 4249
- Vikram Reddy, M. 2314
- Vilajeliu, M. 6650
- Vilardi, J. C. 2947, 3897, 9256
- Vilas Boas, A. M. 3263
- Vilela, E. F. 1181, 1392, 3991,  
4076, 4358, 4531, 6769,  
7729, 8734-8735
- Vilkova, N. A. 3303
- Villa, J. D. 9514
- Villa, M. 2930, 4204, 9504
- Villacorta, A. 4643
- Villaescusa-Celaya, J. 11648
- Villafraña-Sánchez, M. 6391
- Villalba, R. 3656
- Villalobos, W. 10891
- Villalón, B. 4533
- Villaneuva, J. B. 6516
- Villani, A. 11854
- Villani, M. G. 4176, 4265,  
5376, 6815
- Villanueva, S. F. 4296
- Villar, D. 4286
- Villaro, A. C. 3794
- Villarosa, L. 4334, 10633
- Villegas, A. 5454
- Villegas, E. L. 11906
- Villena, R. 6400
- Villiers, E. A. de 10882
- Vilte, H. A. 3508
- Vincent, C. 1417, 2156, 2220,  
2440, 4549, 8380
- Vincent, J. P. 8197
- Vincent, S. L. 672
- Vincini, A. M. 2894, 4484,  
7750, 10782
- Vineet Kumar 11205
- Vineeta Sharma 5158-5159
- Vink, K. 11605
- Vinod, K. 5730
- Vinod Kumar 5730
- Vinson, S. B. 1990, 6154
- Vinuela, E. 3371, 4248, 6995,  
7581, 11591
- Vipul Misra 5323
- Vir, S. 3649, 8861
- Viraktamath, C. A. 1453, 6979-  
6980
- Virant-Doberlet, M. 115
- Virdee, S. R. 3908
- Virkki, N. 11241
- Virla, E. 3439
- Virla, E. G. 3425
- Visalakshy, P. N. G. 8001,  
11446
- Viscuso, R. 931
- Viseras, E. 8159, 8186



- Visitanich, J. 4644, 6727  
 Visser, B. 2233, 8743, 9946  
 Visser, J. H. 6410, 7081, 9278  
 Visser, M. E. 335, 9437  
 Visser, S. 1374  
 Viswanathan, P. N. 2349  
 Visweswaragowda 7483  
 Vita, G. 5577  
 Vita-Finzi, P. 1401  
 Vitali, M. J. 8358  
 Vité, J. P. 1694  
 Vivekanandan, P. 3711  
 Viveros-Rodríguez, N. 9978  
 Vizcaya-Rojas, M. A. 11677  
 Vlachos, I. 6863  
 Vlák, J. M. 4169, 5214, 7443, 11487  
 Vlček, D. 5349  
 Vlčková, V. 5348  
 Vliet, P. J. M. van 508  
 Vlug, H. J. 2472  
 Voblikova, V. D. 1917  
 Voe, L. de 2919  
 Voegtlin, D. 10975  
 Voegtlin, D. J. 4537, 7306, 11015  
 Voerman, S. 97, 5891, 7061, 11850  
 Voet, S. 306  
 Voeten, J. T. M. 11487  
 Vogel, R. 7512  
 Voget, M. 4133  
 Vogler, A. P. 926  
 Vogt, E. A. 1074  
 Vogt, H. 2335  
 Vogt, R. 11667  
 Vogt, R. G. 991  
 Voigt, R. 9542  
 Voinovich, N. D. 10089  
 Voisin, J. F. 8301  
 Volenec, J. J. 863  
 Volker, H. P. 11068  
 Völkl, W. 327, 2104, 4752, 7204, 8367, 11425, 11452  
 Volkmar, C. 3424  
 Volkner, C. 9634  
 Volkov, A. G. 8706  
 Volney, W. J. A. 1688  
 Voloschuk, L. 7397  
 Volovnik, S. V. 8005  
 Von Baier, U. 5066  
 Von Berger, R. 6797  
 Von Buchholz, U. 5540  
 Von Dohlen, C. 4981  
 Von Dueszeln, J. 422  
 Von Feldhege, M. 2575  
 Von Friesland, H. 7320  
 Von Frösche, M. 8620  
 Von Klingenberg, A. 2130  
 Von Malphettes, C. B. 2704  
 Von Nickisch-Rosenegk, E. 4928, 5939  
 Von Reibnitz, C. 10934  
 Von Riebel, A. 10658  
 Von Sydow, F. 6779  
 Von Tersch, M. A. 7453  
 Von Wechmar, M. B. 542, 10434  
 Von Weissenberg, K. 8910-8911  
 Von Westernhagen, H. 6368  
 Von Zuben, C. J. 5130  
 Vongraven, D. 459  
 Vooková, B. 1709  
 Voorhis, N. 1174  
 Vorlop, K. D. 11389  
 Voronin, K. E. 3303  
 Vorst, O. 8875  
 Vorster, H. 8678  
 Vorwerk, K. 5950  
 Vos, H. de 9259  
 Vos, J. 10223  
 Vos, R. de 1167  
 Voss, G. 10477  
 Vossen, P. 10853  
 Vostrowsky, O. 4941, 10673  
 Voudibio, J. 1006  
 Vouland, G. 8917  
 Vovides, A. P. 1638, 6742  
 Vowotor, K. A. 6900  
 Vratarić, M. 1594  
 Vreeken, R. J. 10505  
 Vreeken-Buijs, M. J. 6086  
 Vrieling, K. 5723  
 Vriesen, S. 7920  
 Vrijer, P. W. F. de 4539  
 Vrijer, W. F. de 5536  
 Vrkoč, J. 8908, 11189  
 Vu, T. 11656  
 Vujić, A. 11383  
 Vulsteke, G. 2789-2791  
 Vurgarellis, P. 8544  
 Vuurde, J. W. L. van 7417  
 Vuuren, S. P. van 1570  
 Vyalykh, A. K. 2763  
 Vyas, R. S. 8379  
 Vysotskaya, L. V. 1185, 4990  
 Waage, J. K. 313, 7348, 9802  
 Wachmann, E. 7025  
 Wachowiak, H. 1552, 2400  
 Wachowiak, M. 1273  
 Wacht, S. 124  
 Wachtel, M. F. 10869  
 Wäckers, F. L. 3041, 3945  
 Wada, I. 6886  
 Wada, S. 1801  
 Wada, T. 4448, 7705-7706  
 Wadano, A. 5231  
 Waddell, K. J. 4776, 6033  
 Waddington, C. 643  
 Waddle, B. A. 709  
 Wade, M. J. 1871-1872, 1902, 2954, 6087, 7461, 8215, 8998  
 Wade, S. 4321  
 Wade, S. E. 1360  
 Wadhams, L. J. 1394, 5400, 7735  
 Wagemann, M. 3852  
 Waghulde, J. K. 1613  
 Wagner, D. L. 11986  
 Wagner, G. P. 10076  
 Wagner, M. R. 4731, 8878  
 Wagner, R. 10330, 10567  
 Wagner, R. M. 2922, 3845, 11201, 11795  
 Wagner, R. W. 10933  
 Wago, H. 10406  
 Wagstaffe, P. J. 2263  
 Waguchi, Y. 7964  
 Wahed, M. S. A. 633  
 Wahlbrink, D. 1063  
 Wahrman, J. 1024  
 Wahrman, M. Z. 159  
 Wainhouse, D. 5662  
 Wainio-Keizer, K. L. 4313  
 Wainwright, S. E. 11624  
 Weiss, A. C., Jr. 5372, 6393  
 Waite, B. S. 3760  
 Waite, G. K. 975  
 Waitzbauer, W. 11017  
 Wajnberg, E. 4118  
 Wakabayashi, K. 7582  
 Wakabayashi, N. 4375  
 Wakakuwa, J. 2355  
 Wakamura, S. 3832, 4373, 10677  
 Wakefield, J. 6018  
 Wakefield, T. 8246  
 Wakimoto, T. 2386  
 Wal, D. van der 3417  
 Walangululu, M. 661  
 Walde, S. 8788  
 Walde, S. J. 2558, 10850  
 Walding, J. K. 2915, 7047  
 Waldner, K. 2543  
 Waldrop, B. 113  
 Walgenbach, D. D. 5261, 9742  
 Walgenbach, D. R. 5261  
 Walgenbach, J. F. 4525, 9279, 9809  
 Wali-ur-Rehman 8850, 8890  
 Walia, S. 1311, 1390  
 Waliszewski, S. M. 11633  
 Walker, A. K. 3751  
 Walker, C. 11819  
 Walker, C. B. 11725  
 Walker, C. H. 263, 454, 491, 1341, 5193  
 Walker, C. R. T. 11437  
 Walker, E. D. 3193  
 Walker, G. 7606  
 Walker, G. E. 10869  
 Walker, G. K. 3645  
 Walker, G. P. 6605  
 Walker, J. R. 199  
 Walker, J. T. S. 3536, 6637  
 Walker, L. E. 11423  
 Walker, M. A. 9878, 11875, 11881  
 Walker, T. 4401  
 Walker, T. J. 5114  
 Walker, V. K. 3857  
 Walklate, P. J. 3166  
 Walkowski, M. D. 7616  
 Wall, M. L. 5111, 9958  
 Walla, M. D. 4322  
 Wallace, B. 3021  
 Walldorf, U. 2979  
 Wallendorf, M. J. 5070  
 Waller, J. E. 4600  
 Waller, P. M. 9389  
 Wallin, H. 4396  
 Wallner, W. E. 1177, 4687, 10489  
 Wallsgrave, R. M. 5270  
 Wallstein, M. 9171  
 Walpole, M. J. 7358  
 Walrant, A. 10375  
 Walsh, D. B. 8772-8773  
 Walsh, J. S., Jr. 1956  
 Walsh, M. I. 10268  
 Walsh, P. J. 8302  
 Walsh, T. A. 3839  
 Walsh, W. A. 5565, 9940  
 Walter, D. E. 1639, 11288  
 Walter, F. 973, 5142  
 Walter, G. H. 1658, 6418, 6745, 7156, 9177  
 Walter, J. F. 10554  
 Walters, D. 10011  
 Walters, F. S. 3815, 7454  
 Walters, K. F. A. 545, 2411, 6914  
 Walton, G. S. 1177  
 Walton, M. 2139  
 Walton, M. P. 12098  
 Waltz, R. D. 7910  
 Wan, H. B. 4240, 4339, 4806  
 Wan, M. T. 10648, 11675  
 Wan, T. F. 3454  
 Wan, Y. J. 3454  
 Wan, Z. J. 718  
 Wan-Razlin, W. Z. 6390  
 Wander, J. G. N. 8954  
 Wang, B. 8432  
 Wang, B. Q. 8674  
 Wang, C. A. 6492  
 Wang, C. H. 8426  
 Wang, C. J. 8892  
 Wang, C. L. 298, 2449, 5309, 7292  
 Wang, C. R. 5201  
 Wang, C. S. 8830  
 Wang, C. X. 11404  
 Wang, C. Z. 7229  
 Wang, D. 10363  
 Wang, D. F. 8245  
 Wang, D. S. 1830  
 Wang, D. W. 10374  
 Wang, E. C. 7813  
 Wang, F. H. 233  
 Wang, G. H. 8053  
 Wang, G. S. 8659  
 Wang, H. 412, 2831, 8465, 9490, 9949  
 Wang, H. D. 9730  
 Wang, H. H. 2339  
 Wang, H. J. 3495, 9961  
 Wang, H. K. 4444  
 Wang, H. L. 3239, 9227  
 Wang, H. Q. 3452  
 Wang, J. 3433, 8123, 8674, 9200, 11143  
 Wang, J. B. 5904, 10414, 11510  
 Wang, J. F. 6787  
 Wang, J. H. 3454  
 Wang, J. J. 8125  
 Wang, J. M. 8768  
 Wang, J. S. 10212  
 Wang, J. X. 9830  
 Wang, J. Y. 10453, 10754  
 Wang, K. 715, 1625, 2372, 11934  
 Wang, L. 5966  
 Wang, L. H. 10422  
 Wang, L. J. 3569  
 Wang, L. Q. 11861  
 Wang, L. Y. 276  
 Wang, M. B. 2621  
 Wang, M. L. 9455  
 Wang, M. W. 2070  
 Wang, M. Y. 4071  
 Wang, N. C. 3097, 9369  
 Wang, N. Y. 311, 10912, 11750  
 Wang, P. 4155  
 Wang, Q. 1663, 6402, 11085, 11768  
 Wang, Q. S. 3494, 9933  
 Wang, R. 233  
 Wang, R. H. 569, 9949  
 Wang, R. Y. 7740, 11521  
 Wang, S. C. 9578  
 Wang, S. G. 8125  
 Wang, S. H. 3278  
 Wang, S. Z. 3569, 7127  
 Wang, T. 7509  
 Wang, T. C. 11081  
 Wang, T. K. 718  
 Wang, W. J. 2226, 2392  
 Wang, W. L. 4245, 9660  
 Wang, W. M. 2155  
 Wang, W. X. 1219  
 Wang, W. Z. 393, 1276, 6402, 10669  
 Wang, X. D. 6359, 8409  
 Wang, X. F. 10675  
 Wang, X. J. 11535  
 Wang, X. L. 3491  
 Wang, X. P. 10919, 11963  
 Wang, X. S. 9168  
 Wang, X. Y. 7491  
 Wang, X. Y. 715, 1625, 5977, 10917  
 Wang, X. Z. 1210, 8430  
 Wang, Y. 559, 4194, 8782, 9625-9626, 9660, 10224  
 Wang, Y. B. 11861  
 Wang, Y. C. 5301  
 Wang, Y. M. 6537  
 Wang, Y. P. 10274  
 Wang, Y. Q. 7861  
 Wang, Y. S. 2224, 8579, 10255, 11535  
 Wang, Yang 9626  
 Wang, Z. 3172  
 Wang, Z. H. 8659  
 Wang, Z. L. 3481  
 Wang, Z. S. 8107  
 Wang, Z. T. 2606, 6114, 7875, 8374  
 Wang, Z. X. 8659, 11738  
 Wang, Z. Y. 10255, 10290  
 Wang, Z. Z. 617  
 Wang Jing 8123  
 Wani, M. 308  
 Wanjala, F. M. E. 8932  
 Wanjari, S. S. 2437  
 Wanjura, W. J. 8871  
 Wankhade, S. G. 3465  
 Wankhade, S. T. 2623  
 Wappner, P. 8172  
 Waquil, J. M. 7646  
 Warchałowska-Słiwa, E. 1928  
 Warchałowski, A. 1155-1156  
 Ward, A. D. 8993  
 Ward, C. R. 8676  
 Ward, H. D. 5342  
 Ward, J. E. H. 5342  
 Ward, K. E. 7891  
 Ward, L. K. 2397, 9112  
 Ward, P. I. 4353  
 Ward, P. S. 1818, 9072  
 Ward, S. A. 4897, 5036  
 Ward, V. K. 4914  
 Wardle, G. 2954  
 Wardle, J. 7928  
 Ware, A. B. 672, 6672-6673  
 Ware, G. 9976  
 Ware, G. W. 1789  
 Waring, P. 6104  
 Wärmeling, P. 10302  
 Warot, C. 8765  
 Warren, A. D. 4049  
 Warren, G. N. 9734  
 Warren, J. T. 9206



- Warren, P. H. 7994  
 Warren, R. W. 9103  
 Warren, W. G. 1350  
 Warthen, J. D., Jr. 4363, 9653  
 Wasmann, C. C. 6523  
 Wasscher, M. T. 1112  
 Wasserman, F. 1941  
 Wasserman, M. 1941, 1962  
 Wasserman, O. 7575  
 Wassermann, K. 5229  
 Wasserthal, L. T. 4956  
 Wassgren, A. B. 10188  
 Wassman, R. C. 2584  
 Wastie, R. L. 10785  
 Wastl, U. 5927  
 Watabe, H. 10109  
 Watabe, H. A. 5093, 9051  
 Watabe, S. 1944  
 Watanabe, H. 9467, 10668  
 Watanabe, J. 5447  
 Watanabe, K. 5289, 6291, 7914, 9834, 12036  
 Watanabe, M. 3802, 6039, 8492, 10340  
 Watanabe, M. A. 2580  
 Watanabe, T. 4445-4446, 10731  
 Watanabe, Y. 6570  
 Waters, R. M. 4375, 9658  
 Waters, W. E. 2716  
 Wathelet, J. P. 11004  
 Watson, A. H. D. 1895  
 Watson, A. K. 2215  
 Watson, C. A. 1913  
 Watson, J. A. 1915  
 Watson, J. A. L. 45  
 Watson, P. J. 3209  
 Watson, R. D. 10192  
 Watson, S. 11819  
 Watt, A. 679  
 Watt, A. D. 6914  
 Watt, W. B. 1884  
 Watterson, G. A. 2106  
 Watts, D. W. 2066  
 Watts, J. G. 5701  
 Wauchope, R. D. 406, 9647  
 Waugh, R. 10785  
 Wauters, A. 698  
 Wauthy, G. 11988  
 Wawiye, J. 11300  
 Way, M. J. 6729  
 Way, M. O. 5070  
 Wayne, R. 4147  
 Wayne, S. 9248  
 Wearing, C. H. 11554  
 Weatherbee, S. D. 8099  
 Weathersbee, A. A. 9960  
 Weathersbee, A. A., III 707  
 Weaver, D. J. 4343  
 Weaver, D. K. 4479, 8479, 9010, 9613, 10053  
 Weaver, J. C. 11403  
 Weaver, J. E. 580, 8682  
 Weaver, R. J. 11209  
 Weaver, T. 8191, 10053  
 Webb, B. A. 1003, 5217  
 Webb, N. R. 4006, 8970  
 Webb, R. E. 2652, 2666, 4684, 9419  
 Webb, S. E. 4537, 6616, 6668, 10834, 11835  
 Webb, T. J. 9210  
 Webb, W. R. 2476  
 Webber, J. 8883  
 Webber, M. D. 3398  
 Weber, A. 2324, 8043  
 Weber, B. 524  
 Weber, C. N. 6199  
 Weber, D. C. 4496  
 Weber, E. 9878, 11485  
 Weber, F. 1105  
 Weber, H. W. 2969  
 Weber, L. W. D. 6364  
 Weber, R. E. 1244  
 Weber, T. 1098, 5026  
 Weber, U. M. 8899  
 Webster, A. 8752  
 Webster, F. X. 4729  
 Webster, J. A. 2415, 3443, 9686-9687  
 Wechmar, M. B. von 542, 10434  
 Weckström, M. 126, 8155  
 Wedberg, J. L. 2316  
 Wedell, N. 949, 4387  
 Weeks, J. 2980  
 Weeks, J. C. 7075  
 Weers, P. M. M. 2083  
 Wegener, G. 4951  
 Wegener Sleswijk, A. 427  
 Wegensteiner, R. 7957, 10439  
 Wegerhoff, R. 4887  
 Wegner, H. 10305  
 Wegorek, P. 1328  
 Wegorek, W. 3009  
 Wehling, A. 6369  
 Wehner, R. 6151  
 Wehner, T. 2294  
 Wehtje, G. R. 2756  
 Wei, C. 412, 4245  
 Wei, C. S. 3712  
 Wei, H. D. 10034  
 Wei, H. S. 7711  
 Wei, J. 3481  
 Wei, M. C. 8078  
 Wei, S. X. 2317  
 Wei, X. K. 6125, 10276  
 Wei, Y. 412, 6304  
 Wei, Y. W. 1054  
 Wei, Z. X. 8465  
 Weibull, J. 4889, 6453, 7674  
 Weichenhan, D. 5004  
 Weidemann, S. 988  
 Weidner, K. 1906  
 Weier, J. A. 10152  
 Weigand, S. 874  
 Weigmann, G. 1138  
 Weigmann, U. 6577  
 Weijun, J. 6304  
 Weile, M. 4247  
 Weinberg, M. 1839, 2039  
 Weiner, K. L. 3166  
 Weirerfelt, P. 11360  
 Weintraub, J. D. 10119  
 Weintraub, P. G. 8621  
 Weir, A. 1251  
 Weir, I. 1993  
 Weirich, G. F. 8166, 9209  
 Weis, A. E. 6843, 7257  
 Weiser, J. 4187, 7484, 10439  
 Weishaupt, V. 2885  
 Weissmann, L. 10503  
 Weiss, A. P. 7024  
 Weiss, M. 3987, 11858  
 Weiss, M. J. 1591  
 Weiss, M. R. 12058  
 Weiss, S. B. 3923, 8264  
 Weissenberg, K. von 8910-8911  
 Weissenberg, M. 1723  
 Weisser, W. W. 2104, 4898, 12060  
 Weissling, T. 3987  
 Weissling, T. J. 3800, 3993, 4362, 11391  
 Weissmair, W. 3931  
 Weisz, R. 4261, 6552, 7756, 8495  
 Weitzel, C. 972  
 Wel, C. van der 2472  
 Wel, N. N. van der 332  
 Welbergen, P. 11328  
 Welch, J. D. 210  
 Welch, K. M. 253  
 Welch, N. C. 8772-8773  
 Welch, R. 6363  
 Welch, R. C. 1713, 7918, 10937  
 Welcker, C. 10719  
 Welgemoed, C. 6690  
 Wellenstein, G. 5625  
 Wellings, P. 9031  
 Wellings, P. W. 5036, 5039, 7489  
 Wells, A. J. 4710  
 Wells, B. R. 2798, 6903  
 Wells, C. D. 9010  
 Wells, D. E. 10521  
 Wells, D. W. 2719  
 Wells, J. D. 9474  
 Wells, M. A. 5878, 5977, 8133, 11258  
 Wells, M. M. 3975, 6006  
 Wells, R. J. 845  
 Wellso, S. G. 8634  
 Welsh, A. 3171  
 Welsh, R. 6628, 10479  
 Welsh, R. D. 6578  
 Welter, G. 7512  
 Welter, S. C. 2551, 5537, 6611, 7548, 7683  
 Welton, M. 4197  
 Welty, C. 11832  
 Welzen, K. van 1092  
 Wen, B. 2783, 6883  
 Wen, G. 589  
 Wen, H. C. 7859  
 Wen, J. Z. 11531  
 Wen, X. S. 8279  
 Wen, Z. Z. 8279  
 Wendel, L. E. 4004  
 Wendler, G. 2877, 9321  
 Wendt, C. W. 6441  
 Wennergren, U. 11360  
 Wenning, R. J. 8590-8591, 9635  
 Wensink, P. C. 8207, 9244  
 Wenzel, J. W. 6941  
 Wenzel, W. G. 6473  
 Werf, W. van der 4561  
 Wermelinger, B. 9993  
 Werner, A. 5382  
 Werner, F. G. 9058  
 Werner, R. A. 2703, 9586, 12005  
 Wernz, J. G. 4673  
 Werren, J. H. 3205, 11356  
 Wery, J. P. 2193  
 Weseloh, D. V. 5332, 7589  
 Weseloh, D. V. C. 4306  
 Weseloh, R. M. 2125, 2708, 4680, 4688, 9382, 9837  
 Wesenberg, G. 10181  
 Weslien, J. 2390, 8916  
 Wessing, A. 9186  
 West, C. W. 8580  
 West, D. F. 5975  
 West, R. J. 1890  
 Westbrook, A. L. 5887  
 Westbrook, J. K. 1096  
 Westcott, D. M. 7476  
 Westcott, N. D. 4449  
 Westcott, R. L. 9055  
 Wester, R. C. 3139  
 Westerbergh, A. 6861  
 Westerman, P. R. 7398, 7400  
 Westernhagen, H. von 6368  
 Westhuizen, A. J. van der 3431  
 Westhuizen, M. C. van der 3445, 6473, 8678  
 Westigard, P. H. 6651, 9836  
 Westley, J. W. 349  
 Westoby, M. 3061  
 Weston, J. B. 10343  
 Westveer, K. 11636  
 Westwood, A. R. 2034  
 Wetterer, J. K. 3182, 6064, 7925, 10362  
 Wetzel, T. 1224, 3424, 3430, 6425-6426, 6438, 6451, 9675, 10702  
 Wetzstein, M. E. 2642  
 Weyman, G. S. 6179, 7336, 10701  
 Whalen, J. 9775  
 Whalon, M. E. 440, 5244, 6658, 9567, 9581, 11548  
 Wharton, R. A. 11106  
 Wheeler, A. G., Jr. 188, 4768, 5681, 12054  
 Wheeler, C. H. 979  
 Wheeler, D. E. 3859  
 Wheeler, G. S. 9588  
 Wheeler, M. M. 4698  
 Wheeler, Q. D. 35, 188, 11294  
 Wheeler, T. A. 10093  
 Whelan, C. J. 8869  
 Whelan, H. A. 5200  
 Whidden, A. J. 11867  
 Whitaker-Deerberg, R. L. 4004, 4400  
 Whitcomb, R. F. 3004, 5975, 6518  
 Whitcomb, W. H. 2624  
 White, A. J. 6577  
 White, C. A. 6736  
 White, C. N. 8398  
 White, C. S. 527, 11280  
 White, D. H. 9629, 11614  
 White, E. 4741  
 White, G. B. 2652  
 White, G. L. 6683  
 White, K. 7037  
 White, K. K. 7789-7790, 10481  
 White, N. D. G. 850, 4797, 5748, 8036, 9006, 9013  
 White, P. 3427  
 White, P. C. L. 1422  
 White, R. D. 4663  
 White, R. E. 917  
 White, R. H. 11297  
 White, T. L. 6879  
 White, V. 6637  
 White, W. B. 1767  
 Whitehand, L. C. 3226  
 Whitehead, L. F. 967  
 Whitehead, P. F. 2023, 11999  
 Whitehead, R. 6932  
 Whitehouse, M. E. A. 8914  
 Whitesell, J. J. 5114  
 Whitfield, B. F. 6989  
 Whitford, W. G. 9452  
 Whitham, T. G. 3986, 7939, 10945, 10963  
 Whiting, D. 9012  
 Whiting, D. C. 10463  
 Whitlock, M. C. 2414, 5006  
 Whitman, D. W. 2921  
 Whitmore, R. C. 5642, 7594, 9605  
 Whitney, J. 9868  
 Whitney, S. J. P. 999  
 Whittaker, J. B. 1995, 4784, 4788, 7722, 8922, 11012  
 Whittier, T. S. 5045  
 Whittle, A. J. 10342  
 Whittton, P. S. 9212  
 Whitty, K. J. 6660  
 Wi, A. J. 5672, 12014  
 Wiackowski, S. 1154  
 Wicker, C. 5885, 11224  
 Wickers, S. 8353  
 Wickham, T. J. 373  
 Wicklow, D. T. 3414, 4229  
 Wickman, D. 8592  
 Wickman, P. O. 9333  
 Wicks, T. J. 10869  
 Wicks, T. W. 6907  
 Wickers, K. 2400  
 Widstrom, N. W. 558, 2432  
 Wieber, A. M. 2652  
 Wiesbe, J. T. 10102-10103  
 Wiczorek, H. 2929  
 Wiegand, H. 5907  
 Wiegand, S. 1637, 7944  
 Wiegand, T. 8327  
 Wieggers, G. L. 4093  
 Wiebe, T. H. E. 1029  
 Wielgus, J. J. 2925  
 Wiemerslage, L. J. 130  
 Wiemeyer, S. N. 2290  
 Wiendl, F. M. 1965, 8239, 9262, 10031  
 Wiendl, F. W. 1965  
 Wiendl, J. A. 9262  
 Wiener, L. 1701, 2709  
 Wiens, J. A. 2086  
 Wiens, M. 5342  
 Wientzek, M. 8170  
 Wier, A. T. 1474, 4470, 6532, 8688, 9750, 10759, 10763  
 Wieren, S. E. van 2644  
 Wierenga, J. M. 1333, 11548  
 Wiernasz, D. C. 7206, 11168, 11409  
 Wieschaus, E. F. 4909  
 Wiesel, G. 7621  
 Wiesen, B. 4970  
 Wiesner, A. 2926, 7096  
 Wietlisbach, D. O. 6019  
 Wiggert, B. 10208  
 Wightman, A. S. 6713  
 Wightman, J. A. 2599, 4629, 5391, 5581, 6713, 7741  
 Wigle, D. 482  
 Wigley, P. J. 8337  
 Wijbenga, J. 7416  
 Wijk, C. A. M. van 5723



- Wijk, C. A. P. van 7779  
 Wijngaarden, R. van 2350  
 Wiklund, C. 3921, 9333, 11312  
 Wilcock, R. J. 11663  
 Wilcox, C. 6192  
 Wilcox, W. F. 6648  
 Wilcut, J. W. 2756, 3586  
 Wild, C. H. 3288  
 Wild, J. R. 4241, 11496  
 Wildbolz, T. 8461  
 Wilde, G. 1427, 8627  
 Wilde, G. de 5747, 8990  
 Wilde, G. E. 539, 2441, 4395, 7692  
 Wilde, J. 10381  
 Wilder, J. W. 1174, 10252  
 Wilding, N. 1506, 2195, 5491, 10430  
 Wiles, J. A. 543, 4308, 10609, 10697  
 Wiley, S. P. 86  
 Wileyto, E. P. 4221  
 Wilhoit, L. R. 1636  
 Wilk, F. van der 3271  
 Wilkens, R. T. 5858  
 Wilkie, L. 1860  
 Wilkin, D. R. 4802  
 Wilkin, P. J. 1885  
 Wilkins, A. L. 11663  
 Wilkins, J. P. G. 6294  
 Wilkins, R. M. 556, 10518  
 Wilkinson, P. 6380  
 Wilkinson, T. L. 11770  
 Will, M. W. 3053  
 Willemse, L. 1146  
 Willers, P. 1575  
 Willett, M. J. 6652  
 Willey, M. B. 6193  
 Williams, B. D. 4311  
 Williams, C. E. 10762  
 Williams, D. F. 288, 4084, 10203  
 Williams, D. G. 8767, 9853  
 Williams, D. J. 1731, 4463, 5575  
 Williams, D. W. 11974  
 Williams, E. H. 11289  
 Williams, H. J. 8349  
 Williams, I. H. 4620, 7005  
 Williams, J. A. 5950  
 Williams, J. R. 1413  
 Williams, K. S. 9265  
 Williams, L. A. D. 5291, 8958  
 Williams, L. E. 6655, 11879  
 Williams, M. 11074  
 Williams, M. H. 1885  
 Williams, M. L. 11  
 Williams, R. 9634  
 Williams, R. J. 4789  
 Williams, R. N. 7903, 11730  
 Williams, R. S. 12012  
 Williams, S. 3137  
 Williams, T. 2159, 3292, 6241, 7384  
 Williams, T. R. 5865  
 Williams, W. P. 4422, 5415, 9711, 11729  
 Williamson, C. 10434  
 Williamson, D. L. 3004  
 Williamson, M. S. 9238  
 Williamson, T. M. 2497, 2518, 2531, 2618, 3515  
 Willig, M. R. 1239, 3686-3687  
 Willingham, L. A. 8176  
 Willink, E. 1478  
 Willis, G. A. 1338  
 Willis, G. H. 9953, 11671  
 Willis, J. H. 7132  
 Willis, M. A. 8156  
 Willmer, P. G. 7026  
 Willmott, K. R. 4051  
 Willott, E. 5995, 10174, 10224  
 Willoughby, B. 6514  
 Wills, A. 8870  
 Willson, B. W. 3288  
 Willson, H. R. 4420  
 Wilps, H. 1728, 2289, 3731, 4079  
 Wilson, B. W. 443, 10589  
 Wilson, C. 1565  
 Wilson, D. 6134  
 Wilson, D. J. 6638, 6679, 8576  
 Wilson, E. M. 11606  
 Wilson, E. O. 9045  
 Wilson, F. D. 706  
 Wilson, G. W. 5622  
 Wilson, J. G. M. 238  
 Wilson, K. 3057-3058, 9572  
 Wilson, L. A. 2655  
 Wilson, L. E. 8442  
 Wilson, L. J. 8845, 9948, 10923  
 Wilson, L. M. 3693, 11026  
 Wilson, L. T. 4643  
 Wilson, M. 5753, 6274  
 Wilson, M. D. 8330  
 Wilson, M. J. 350-351, 546, 4136, 4405, 10807, 10810  
 Wilson, R. G. 195  
 Wilson, R. L. 9706  
 Wilson, W. G. 1206  
 Wilson, W. L. 1700  
 Wilton, J. 7807  
 Wiltshire, C. W. 4405, 10807  
 Wimalasiri, W. R. 6823  
 Wimmer, E. A. 8227  
 Wimmer, Z. 4349  
 Winden, J. van 6139  
 Winder, L. 4408  
 Windig, J. J. 238  
 Windsor, D. 2903  
 Wingerden, W. K. R. E. van 1111, 1116, 1119  
 Wingfield, M. J. 760, 4153  
 Winiarska, W. 1301  
 Wink, M. 5898, 5939, 10154  
 Wink, W. 4928  
 Winokur, L. 7272  
 Winerling, J. J. 5946  
 Winter, A. J. de 3979  
 Winter, K. 1649  
 Winter, T. G. 889  
 Winterbourn, M. J. 4713  
 Winterton, S. L. 9085, 9429  
 Wintgen, A. 7642  
 Winther, S. 4064  
 Wipking, W. 5863, 7237  
 Wirthová, M. 4021  
 Wischniewsky, M. B. 2372  
 Wisdom, C. S. 3488  
 Wise, D. A. 11434  
 Wise, I. L. 9965  
 Wise, S. A. 472, 2383  
 Wiseman, B. R. 1813, 2425-2426, 2432, 2434, 3300, 4418, 4426, 4475, 9483, 9706  
 Wiskerke, J. S. C. 3974  
 Wiśniewski, J. 8065, 8070-8071  
 Wissel, C. 8327  
 Wistow, S. 3635  
 Witalis, J. 4902  
 With, K. A. 3941  
 Witkowski, J. F. 10618, 10760  
 Witsack, W. 1079  
 Witte, L. 6825, 10026  
 Witte, R. 10664  
 Witten, J. L. 119  
 Witter, J. A. 732-733, 6746  
 Witter, M. 2291  
 Wittmann, C. 2375, 3396  
 Wittwer, A. 2032  
 Witz, B. W. 4033  
 Witz, J. A. 1097  
 Witzgall, P. 4480  
 Wiwat, C. 9465  
 Wixley, R. A. J. 4562  
 Władko, S. 8672  
 Wodecka, C. 2228  
 Wofford, P. K. 10059  
 Wohanka, W. 7976  
 Wohlgemuth, R. 2771, 12069  
 Woin, P. 3154  
 Woitwod, I. P. 6657  
 Wojcik, D. P. 9073  
 Wojcik, E. 8211  
 Wojtasek, H. 3854  
 Wolbert, P. 8221  
 Wolda, H. 234, 2649, 8268  
 Wolf, D. D. 2765, 6845  
 Wolf, J. M. van der 7417  
 Wolf, K. W. 59  
 Wolf, M. 8586  
 Wolf, S. S. 7911  
 Wolfe, K. L. 1854  
 Wolfe, M. F. 10649  
 Wolfenbarger, D. A. 398, 10830  
 Wolfersberger, G. 5896  
 Wolfersberger, M. G. 83, 107, 9461  
 Wolff, B. 410  
 Wolff, J. O. 2329  
 Wolff, M. A. 6321  
 Wolff, R. L. 9217  
 Wolfner, M. F. 8163  
 Wolfson, J. L. 9546  
 Wolgamot, G. M. 2163  
 Wolny, S. 11902  
 Wolny, W. 187  
 Wolpert, J. A. 9878  
 Wolswinkel, P. 2757  
 Womac, A. R. 4268  
 Wong, K. S. 8013  
 Wong, M. K. 4240, 4339, 4806  
 Wong, R. Y. 5372  
 Wong, T. T. Y. 1216, 2887, 9434  
 Wong, W. K. R. 3866  
 Wongkaew, S. 10390  
 Wontner-Smith, T. 8482  
 Wontner-Smith, T. J. 5744  
 Wood, A. 525, 1731  
 Wood, B. W. 6702  
 Wood, D. L. 7961, 8913, 10961  
 Wood, D. M. 11148  
 Wood, E. A., Jr. 3443, 9686  
 Wood, H. A. 373, 10071, 11512  
 Wood, J. F. 5743  
 Wood, L. 9852  
 Wood, T. K. 7002  
 Woodburn, T. L. 831  
 Woodcock, C. M. 5400, 7735  
 Wooddy, M. W. 5751  
 Woodfin, R. M. 5082  
 Woodford, J. A. T. 143, 4569, 7827  
 Woodhead, A. P. 8162  
 Woodhouse, E. 1055  
 Woodley, N. E. 4827, 6103  
 Woodring, J. 278, 3858  
 Woodring, J. P. 5877  
 Woods, S. A. 363  
 Woodson, W. D. 1438, 1440, 2423, 4419  
 Woodward, F. I. 10700  
 Woodworth, A. R. 1946  
 Wool, D. 175, 3335, 5567-5568, 6323, 8893, 9561  
 Woolcock, L. T. 8637  
 Woolley, J. B. 3766, 6969, 11139  
 Wootton, J. C. 1039  
 Workman, D. J. 8682  
 Workman, J. 5504  
 Workman, P. J. 6275, 6613  
 Worland, M. R. 2051, 4006  
 Worledge, D. 10436  
 Worner, S. P. 6452, 6657  
 Wormoayporn, V. 4386  
 Worrall, F. 512  
 Wortham, H. 10660  
 Worthen, W. B. 195  
 Wossink, G. A. A. 10475  
 Woyke, H. W. 8963  
 Woźny, J. 2059  
 Wraight, S. P. 7745  
 Wranik, W. 1841  
 Wratten, S. 5105  
 Wratten, S. D. 832, 2208, 4408, 5505, 6035, 6452, 6577, 7242, 7566, 7653, 7659-7660, 7673, 7676, 9380, 12098  
 Wray, V. 4970, 6825  
 Wrensch, D. L. 9934  
 Wright, A. D. 3247  
 Wright, A. F. 6126  
 Wright, B. 1797  
 Wright, C. 6080  
 Wright, C. G. 4342  
 Wright, D. J. 4104, 6336, 7099, 7778, 9802, 11550  
 Wright, E. J. 2816-2817  
 Wright, E. M. 793, 9274  
 Wright, G. C. 4629  
 Wright, K. 5276  
 Wright, K. M. 6593  
 Wright, L. C. 11007  
 Wright, M. G. 786, 4751  
 Wright, P. J. 5445  
 Wright, R. J. 1441, 2441  
 Wright, S. 6266, 6597  
 Wright, S. J. 2649  
 Wright, T. 4197  
 Wu, C. F. 8123  
 Wu, C. I. 1036, 1056  
 Wu, D. 4230, 8437  
 Wu, D. M. 2471  
 Wu, G. R. 2449  
 Wu, G. Y. 9933  
 Wu, H. 4835, 6096  
 Wu, H. H. 8668  
 Wu, J. 2116  
 Wu, J. L. 12038  
 Wu, J. T. 569, 9729  
 Wu, J. X. 262  
 Wu, J. Y. 8329  
 Wu, J. Z. 11847  
 Wu, K. K. 5064  
 Wu, K. M. 10914, 10918  
 Wu, L. M. 7669  
 Wu, M. 4975  
 Wu, M. D. 3468, 11334  
 Wu, M. G. 12050  
 Wu, M. L. 9661  
 Wu, M. X. 2164  
 Wu, N. 9230  
 Wu, Q. 9929  
 Wu, Q. H. 3022  
 Wu, R. Z. 569, 9729, 10055  
 Wu, S. C. 11577  
 Wu, S. Q. 11546  
 Wu, S. Y. 8026  
 Wu, T. F. 2622  
 Wu, T. T. 8426  
 Wu, T. Y. 3525  
 Wu, W. 10413  
 Wu, W. J. 38, 3420, 5235  
 Wu, W. Q. 9221, 9657  
 Wu, W. W. 8466, 9861  
 Wu, W. Z. 8597  
 Wu, X. F. 1942  
 Wu, X. J. 10273  
 Wu, X. Q. 10210  
 Wu, Y. B. 11768  
 Wu, Y. D. 6317, 10546  
 Wu, Y. G. 9961  
 Wu, Y. Q. 4649  
 Wu, Y. S. 7806  
 Wu, Z. B. 5618, 9962  
 Wu, Z. D. 7354  
 Wu, Z. F. 9733  
 Wu ChunFang 8123  
 Wu JianYong 8329  
 Wudtke, A. 1762  
 Wulf, A. 7405, 8918, 11284  
 Wunderlich, M. L. 9642  
 Wurglics, G. 10209  
 Wyatt, G. R. 1939, 4964, 10191, 11213  
 Wyatt, N. P. 11130  
 Wyatt, T. D. 3943, 9312  
 Wybierski, J. 2364  
 Wybrandt, G. B. 3862  
 Wyk, P. S. van 4153  
 Wyk, P. W. J. van 4153  
 Wyler, T. 316, 5215  
 Wyman, J. A. 6602-6603, 7762  
 Wynn, N. R. 5747, 8990  
 Wynne, I. R. 5652  
 Wysoki, M. 8424  
 Wyss, E. 8760  
 Wystman, P. A. G. 40  
 Xi, Y. 6069  
 Xia, B. C. 11455  
 Xia, D. R. 11555  
 Xia, S. J. 6359  
 Xia, T. 6359  
 Xia, Y. H. 9886  
 Xia, Y. L. 10689  
 Xia, Y. N. 6253  
 Xia, Y. S. 9936  
 Xia, Z. M. 3254  
 Xian, F. S. 2067  
 Xian, X. Y. 11905  
 Xiang, B. 9955  
 Xiao, N. K. 7175



- Xiao, T. G. 8382  
Xiao, Y. F. 10743  
Xiao, Z. Q. 3712  
Xiao, Z. Y. 10730  
Xie, C. S. 7764  
Xie, G. F. 3662  
Xie, H. X. 10694  
Xie, L. P. 7293  
Xie, M. 3662  
Xie, P. H. 11525  
Xie, T. 107, 5896  
Xie, T. J. 262  
Xie, W. H. 6788  
Xie, W. M. 10255  
Xie, W. P. 6943  
Xie, X. J. 6537, 9720  
Xie, X. W. 3255  
Xie, Y. 2255  
Xie, Y. J. 559  
Xie, Y. L. 256  
Xie, Y. S. 4380, 7531  
Xie, Z. J. 2168  
Xie, Z. L. 7883, 8384  
Xihua, D. 5295  
Xing, J. M. 11521  
Xiong, J. H. 7887  
Xiong, J. W. 7851, 8376  
Xiong, S. L. 8832, 10927  
Xiong, Y. 1043, 1048, 1936  
Xu, B. 6537  
Xu, B. W. 4241  
Xu, C. F. 9886  
Xu, D. J. 8244  
Xu, D. L. 7881  
Xu, D. Y. 9933  
Xu, F. J. 3454  
Xu, F. L. 7887  
Xu, G. 3344, 5286, 6334  
Xu, G. M. 4444  
Xu, H. H. 6296, 6864  
Xu, J. 1055, 8222  
Xu, J. H. 5208  
Xu, J. L. 9345  
Xu, J. S. 11555  
Xu, K. Z. 10865  
Xu, L. 2334, 2557, 4072  
Xu, L. H. 5310  
Xu, Q. F. 6245, 9501  
Xu, Q. Q. 2449  
Xu, R. 1210  
Xu, R. M. 8261  
Xu, R. W. 4332  
Xu, S. C. 10166  
Xu, S. T. 8673  
Xu, W. G. 7508  
Xu, W. H. 10394  
Xu, W. L. 715  
Xu, X. B. 4330-4331, 5278, 5311, 5359  
Xu, X. Q. 7880  
Xu, Y. 5310, 8597  
Xu, Y. K. 393  
Xu, Y. X. 9969  
Xu, Z. D. 11973  
Xu, Z. G. 11992  
Xu, Z. Y. 5309  
Xue, M. 8317  
Xue, Q. K. 6359  
Xuezh, T. 5295  
Xun, Z. S. 10274  
Yaacov, M. Bar- 8153  
Yablonski, S. 3546, 8512  
Yabuta, G. 9589  
Yabuta, M. 11477  
Yack, J. E. 5826  
Yada, R. Y. 4489  
Yadav, A. S. 1032  
Yadav, D. N. 4029  
Yadav, J. P. 2973, 3899  
Yadav, J. S. 1032, 4369, 11584  
Yadav, L. B. 9662, 11913  
Yadav, L. S. 7744  
Yadav, N. P. 8486  
Yadav, P. R. 2904, 5189, 7744, 10159, 11466  
Yadav, R. N. S. 7108, 11467  
Yadav, R. P. 5182, 6160, 7727, 7742  
Yadav, T. D. 704  
Yadava, C. P. 6546  
Yadava, C. P. S. 9772  
Yadava, S. R. S. 6618  
Yafuso, M. 3194  
Yager, D. D. 7082  
Yagi, K. J. 4964  
Yaginuma, T. 8218  
Yagoua, D. 8704  
Yaguchi, K. 4335  
Yaguchi, N. 11874  
Yaguchi, T. 11583  
Yahia-Cherif, Z. 11534  
Yahiro, K. 5439, 11373  
Yajima, Y. 9574  
Yakahashi, S. Y. 3238  
Yakovleva, M. P. 519  
Yallaly, P. 9149  
Yamada, J. 10604  
Yamada, M. 9400  
Yamada, S. 12067  
Yamada, T. 4991  
Yamada, Y. 10352  
Yamagishi, T. 4335  
Yamaguchi, T. 3192, 7073, 8352  
Yamaguchi, Y. 2971, 4712  
Yamakawa, M. 5882, 8222, 9152, 10221  
Yamamoto, A. H. 3892-3893, 9234  
Yamamoto, H. 4446, 10761  
Yamamoto, I. 9589, 9615-9616, 12043  
Yamamoto, J. T. 10589  
Yamamoto, K. 4807  
Yamamoto, M. 370, 4160, 8222  
Yamamoto, P. T. 4595, 5613-5614, 9275  
Yamamoto, R. T. 838, 1764, 2257, 3698, 5731, 8023  
Yamamoto, Y. 92, 94, 2907  
Yamana, T. 7572  
Yamanaka, A. 171  
Yamanaka, J. 5370  
Yamanaka, S. 7583  
Yamane, S. 5129, 7998  
Yamane, T. 11569  
Yamano, T. 7590, 8556  
Yamaoka, R. 2140  
Yamashita, K. 1000, 4514  
Yamashita, N. 5328  
Yamashita, O. 2939, 3849, 4130, 7054, 8218, 10394  
Yamashita, T. 1000, 10636  
Yamauchi, A. 2076  
Yamauchi, K. 11164  
Yamauchi, S. 4493  
Yamazaki, H. 3679, 5383  
Yamazaki, M. 2454  
Yamazaki, S. 7155  
Yamazaki, T. 2963, 2971  
Yamazaki, Y. 11629  
Yamoah, C. F. 590  
Yan, F. 10206  
Yan, F. S. 8154, 10245  
Yan, G. 2161  
Yan, G. Y. 7389  
Yan, H. 6359  
Yan, L. 10379, 11296  
Yan, N. S. 11860  
Yan, S. Q. 10953  
Yan, T. M. 11455  
Yan, W. B. 9949  
Yan, Y. H. 644, 2471, 8754  
Yan, Z. J. 10889  
Yanagawa, H. A. 7374  
Yanagisawa, Y. 10838  
Yanase, T. 10405  
Yanbe, T. 743, 4700  
Yanchao, J. 10542  
Yanchou, J. 10541  
Yanega, D. 6032  
Yang, B. 5186  
Yang, B. L. 11860  
Yang, C. 11272  
Yang, C. K. 5791-5792, 5803, 6095-6096, 6943  
Yang, C. L. 9677  
Yang, C. Q. 5792, 12041  
Yang, C. X. 276  
Yang, C. Y. 2339  
Yang, D. 4835  
Yang, D. R. 8102  
Yang, F. G. 10754  
Yang, G. 2426, 2434  
Yang, G. M. 8284  
Yang, G. Q. 3712  
Yang, G. X. 7509  
Yang, H. 9432, 10422, 11545  
Yang, H. W. 1246  
Yang, J. C. 2126, 2525  
Yang, J. D. 277  
Yang, J. K. 2654, 10079  
Yang, J. S. 5487, 7831  
Yang, K. W. 4298, 5278, 5359  
Yang, L. 8936  
Yang, L. P. 7831  
Yang, M. D. 8426  
Yang, M. Z. 9501  
Yang, P. 2540, 5067  
Yang, P. J. 2210, 4009, 4031, 5064  
Yang, P. L. 8426  
Yang, P. S. 6100  
Yang, Q. K. 10753  
Yang, R. S. H. 496  
Yang, R. X. 11555  
Yang, S. C. O. 71  
Yang, S. J. 12065  
Yang, S. T. 3172  
Yang, S. X. 8857  
Yang, W. H. 11404  
Yang, X. 9463  
Yang, X. K. 5791, 6949, 10117  
Yang, X. Z. 9681, 10212  
Yang, Y. F. 11137  
Yang, Y. H. 10467, 11998  
Yang, Y. L. 10163, 11805  
Yang, Y. N. 11840  
Yang, Y. X. 8102, 9329  
Yang, Y. Z. 6492  
Yang, Z. 11738  
Yang, Z. F. 9954  
Yaninek, J. S. 610, 2505, 2507, 2511, 2811  
Yan'kov, I. I. 2494  
Yannopoulos, G. 3002, 11277  
Yano, E. 4003  
Yano, K. 94, 1944, 3416, 4447, 5439, 5447, 5545  
Yano, M. 8150  
Yano, S. 2576, 5713  
Yantsen, E. I. 994, 5870  
Yao, D. R. 6537  
Yao, H. J. 8255  
Yao, J. R. 9637  
Yao, S. 2622  
Yao, W. J. 3354  
Yao, Y. E. 8504  
Yao, Y. M. 6402  
Yaqoobi, M. 8696  
Yara, M. 11178  
Yarbrough, W. W. 4040  
Yarden, G. 4634  
Yaredni, A. 7845  
Yarita, T. 10604  
Yarkin, C. 10510-10511  
Yarovaya, O. V. 10214  
Yaru, W. 6479  
Yasnosh, V. A. 7285  
Yastrebtsov, A. 1866  
Yasuda, K. 4543, 7763, 7800, 10828  
Yasuda, T. 3832, 10677  
Yasudomi, N. 4272, 4276  
Yasuhara, A. 8578  
Yasumi, K. 632  
Yasunaga, C. 5205  
Yasunaga, T. 4045, 5711, 5813, 7797, 8105  
Yasunaga, Y. 8558  
Yasuno, M. 4346  
Yate, V. H. 2993  
Yates, L. 8841  
Yates, M. 9642  
Yates, M. V. 8584  
Yates, S. R. 8584  
Yates, T. J. 4547, 6092, 11618  
Yathom, S. 3311  
Yau, P. 8881  
Yazaki, K. 171  
Yazawa, T. 9154  
Yazdani, A. 674  
Yazdani, S. S. 6718, 8715, 9921  
Ydenberg, R. 7217  
Ye, B. H. 9369  
Ye, G. Y. 2119, 8421, 9453, 9529  
Ye, H. 10964  
Ye, M. Z. 2182  
Ye, X. F. 6788  
Ye, X. X. 8448  
Ye, Z. C. 11067  
Ye, Z. X. 2447, 9731  
Yeargan, K. V. 1998, 2484, 6188, 7190  
Yeates, D. K. 2839  
Yeaton, R. I. 347  
Yedvobnick, B. 167  
Yee, C. J. 10424  
Yee, J. 3623  
Yeh, Y. 3469  
Yehling, D. M. 9934  
Yehuda, S. B. 8424  
Yélamos, T. 8063  
Yelshetty Suhas 328  
Yen, D. F. 368  
Yen, J. H. 8579  
Yen, Y. Y. 2339  
Yencharis, J. 11168  
Yencho, G. C. 605  
Yendol, W. G. 387, 10941  
Yenush, L. 2958  
Yeo, J. P. 10222  
Yerger, E. 7966-7967, 10011  
Yeshbir Singh 11786  
Yess, N. J. 2787  
Yi, S. X. 7068  
Yie, B. H. 3097  
Yiem, M. S. 2550, 7811-7812, 7818  
Yiğit, A. 1230  
Yıldızgördü, K. Ç. 10880  
Yin, C. M. 11215  
Yin, H. F. 8296  
Yin, R. G. 7794, 8819  
Yin, S. G. 11132  
Yin, X. Y. 3467  
Yin, Y. S. 386  
Yinchang, W. 5295  
Ying, Y. 10558  
Yip, H. 4140  
Yitafetu, L. 11734  
Yinag, D. 10310  
Yoder, R. N. 9641  
Yoe, S. M. 2910  
Yohn, G. W. 8682  
Yokomi, R. K. 4591, 4593, 11078, 11368, 11898  
Yokoo, M. 2453  
Yokoo, S. 10198  
Yokosuka, T. 10561  
Yokota, G. Y. 3539, 11879  
Yokoyama, J. 4606  
Yokoyama, T. 362, 7480, 10576  
Yokoyama, V. Y. 6872-6873  
Yon, D. A. 2371  
Yonce, C. E. 6654, 9866  
Yoneda, Y. 7964  
Yoo, C. H. 2910  
Yoo, J. K. 7982  
Yoo, M. A. 7003, 11156  
Yoo, S. 11480  
Yoon, C. K. 11281  
Yoon, H. R. 54, 7019  
Yoon, I. B. 6951, 10086, 11099  
York, A. C. 2756  
York, J. D. 10353  
Yoshida, H. A. 9823  
Yoshida, I. 6345  
Yoshida, K. 6029, 8560  
Yoshida, M. 3207, 6219  
Yoshida, S. 6353  
Yoshida, T. 4013, 6072, 7105, 7230  
Yoshida-Shaul, E. 8056  
Yoshiga, T. 4907, 9184  
Yoshihara, K. 6836, 6938  
Yoshii, C. 2580  
Yoshikawa, H. 3333, 8493  
Yoshimatsu, S. 2687, 10113  
Yoshimura, T. 6203, 8996, 11463  
Yoshio, H. 6212  
Yoshioka, M. 4094



- Yoshioka, T. 89  
 Yoshioka, Y. 11513  
 Yoshitake, A. 6352  
 Yoshiyasu, Y. 3769, 5784, 10335  
 Yoshizawa, E. 10740, 12034  
 You, L. S. 8832, 10373, 10927  
 You, M. S. 2022  
 You, X. Q. 6399  
 You, Z. P. 10546  
 Youm, O. 2121, 2442, 6478, 9717  
 Youn, Y. N. 7355, 7704  
 Young, A. M. 4646  
 Young, D. 193, 9320  
 Young, J. 11534  
 Young, J. C. 6255  
 Young, J. E. B. 534  
 Young, J. M. 11758  
 Young, L. J. 88, 3485  
 Young, L. S. 2974, 8398  
 Young, M. W. 5980  
 Young, O. P. 5167  
 Young, R. J. 716, 8506  
 Young, S. D. 6511  
 Young, S. S. Y. 9934  
 Young, S. Y. 2191  
 Young, T. W. K. 8111, 10603  
 Youngman, R. R. 3437  
 Younis, A. M. 8506  
 Younossi-Hartenstein, A. 1034  
 Youssef, N. N. 2164, 4786  
 Yu, D. S. 2123, 8788, 11923  
 Yu, D. W. 3690  
 Yu, G. Y. 8077  
 Yu, H. M. 9955  
 Yu, J. H. 3855  
 Yu, K. R. 8659  
 Yu, L. 8432  
 Yu, M. G. 7333  
 Yu, S. J. 341-342, 2146, 5933  
 Yu, W. D. 10877  
 Yu, X. G. 276  
 Yu, X. L. 6442  
 Yu, X. P. 2449  
 Yu, X. Q. 3454  
 Yu, X. X. 9342  
 Yu, Y. 4156  
 Yu, Y. B. 8674  
 Yu, Y. M. 11515  
 Yu, Z. J. 3452  
 Yu, Z. N. 8432, 11529  
 Yuan, F. 5805  
 Yuan, J. G. 8507  
 Yuan, K. L. 9955  
 Yuan, Q. C. 6442  
 Yuan, X. L. 7039  
 Yuan, Z. Y. 1942  
 Yuasa, K. 4807  
 Yue, B. 3220-3221  
 Yue, J. L. 11861  
 Yuehua, P. 10805  
 Yuji, R. 3320  
 Yukawa, J. 6777, 6802  
 Yuki, V. 10768  
 Yukizane, M. 7023  
 Yule, W. N. 1247  
 Yum, J. 11261  
 Yun, C. Y. 2910  
 Yun, H. K. 5937, 10176  
 Yurkiewicz, W. J. 11399  
 Yurku, A. I. 9709  
 Yushayati, Y. 1052  
 Yuuki, S. 6291, 9834  
 Yuzawa, S. K. 7267  
 Zaag, D. E. van der 10786  
 Zabalou, S. 11277  
 Zabik, M. E. 6363  
 Zabik, M. J. 6363  
 Zach, P. 6999, 9102  
 Zacharopoulou, A. 4920  
 Zadoks, J. C. 7481, 10070  
 Zafzouf, M. 10634  
 Zaha, A. 5011  
 Zaheer, K. 6209  
 Zaheruddeen, S. M. 10881  
 Zahler, S. 7010  
 Zahm, S. H. 10571  
 Zahner, V. 4164  
 Zahradníčková, H. 5211  
 Zahradník, P. 6962  
 Zaidi, P. H. 6283  
 Zaidi, R. H. 4828, 6678  
 Zajac, R. Z. 444  
 Zakeri, Z. 11185  
 Zakharenko, V. A. 3303  
 Zakharenkova, N. N. 10452  
 Zakharov, I. A. 172, 11423  
 Zaki, F. N. 7356, 11432, 11765  
 Zakonnikova, K. V. 9828  
 Zalewski, A. 6347  
 Zalom, F. 10684  
 Zalom, F. G. 321, 8772-8773, 9664, 9703  
 Zalucki, M. P. 2964, 3688, 9367  
 Zaluki, M. P. 5388  
 Zalunin, I. A. 11517  
 Zaman, Z. 5558  
 Zambetaki, A. 5957  
 Zamora, R. 10020  
 Zamoro, A. 6110  
 Zan, X. M. 8432  
 Zande, J. C. van de 6137  
 Zanen, P. O. 7211  
 Zang, Y. F. 8284  
 Zangerl, A. R. 964, 2743, 7051  
 Zanni, G. 639, 641  
 Zanolco, D. 10970  
 Zanoncio, J. C. 1181, 1205, 1660-1661, 3637, 3639, 3991, 4694-4695, 5635, 7020, 7159  
 Zanoncio, T. V. 1205, 1660-1661, 3639, 7020  
 Zapata, C. 1028, 10236  
 Zapata-Pérez, O. 8595  
 Zapater, M. 5374  
 Zapien, G. I. 2583  
 Zapp, H. R. 6658  
 Zapparoli, M. 11929  
 Zargar, M. Y. 11650  
 Zariffa, N. 2537  
 Zariqş, I. 3260  
 Zarnegar, R. 10424  
 Zaslavski, V. A. 6073, 9337  
 Zatyamina, V. V. 2593  
 Zavadil, J. 3517  
 Zayas, E. de 1689  
 Zaz, G. M. 9472  
 Zchori-Fein, E. 4219  
 Žďárek, J. 7178  
 Zear, A. J. 2913  
 Zebeyou, M. 4371, 4622, 7627  
 Zebitz, C. P. W. 1431, 1476, 10705  
 Zeddard, J. L. 7441-7442  
 Zeeland, M. G. van 7398  
 Zeenath, C. 3409  
 Zegelman, L. 12009  
 Zeh, D. W. 4993  
 Zeh, J. A. 4993  
 Zehavi, A. 1723, 9988  
 Zehnder, G. 6280, 9782  
 Zehnder, G. W. 9776, 11076  
 Zehr, D. D. 1451  
 Zeid, M. M. A. 1349  
 Zeidan, M. 7792  
 Zeisel, S. H. 10064  
 Zeiske, W. 5897, 11196  
 Zelenka, W. 1822  
 Zeller, D. A. 8307  
 Zeng, F. 4461  
 Zeng, M. S. 9933  
 Zeng, Q. 8430  
 Zeng, X. C. 11456  
 Zeng, Z. 6433  
 Zenner de Polania, I. 3131  
 Zepp, M. K. 3865  
 Zera, A. J. 3822, 4978, 9148  
 Zerba, E. 432  
 Zerche, L. 909  
 Zeren, Y. 3561  
 Zervas, C. G. 3814  
 Zettel, H. 2027, 2029  
 Zettler, J. L. 9613  
 Zeya, S. B. 18, 11092  
 Zhai, B. P. 4444  
 Zhang, A. 5376, 6815  
 Zhang, A. G. 4584  
 Zhang, B. X. 3491  
 Zhang, C. L. 9349  
 Zhang, C. X. 6359  
 Zhang, D. 86  
 Zhang, D. C. 3433  
 Zhang, D. F. 8244  
 Zhang, D. L. 10008  
 Zhang, F. J. 9329  
 Zhang, F. K. 9919  
 Zhang, F. Q. 9369  
 Zhang, F. Y. 10917, 11144  
 Zhang, F. Z. 8768  
 Zhang, G. 412  
 Zhang, G. A. 7887  
 Zhang, G. J. 3239, 9227  
 Zhang, G. L. 3433, 10129  
 Zhang, G. M. 9315  
 Zhang, G. S. 7127  
 Zhang, G. X. 6956, 10274  
 Zhang, G. Y. 1246, 10255  
 Zhang, H. G. 2968, 6324, 12065  
 Zhang, H. L. 11805  
 Zhang, H. P. 3481  
 Zhang, H. Y. 1173, 3295  
 Zhang, J. 269, 7491  
 Zhang, J. F. 5618, 9962  
 Zhang, J. L. 7890  
 Zhang, J. W. 8820  
 Zhang, J. Z. 1939  
 Zhang, L. 7583, 11528  
 Zhang, L. M. 8674  
 Zhang, L. Y. 7254, 9729  
 Zhang, L. Z. 4331  
 Zhang, M. 6658  
 Zhang, M. L. 4236  
 Zhang, N. A. 11962  
 Zhang, Q. B. 8782, 10374  
 Zhang, Q. G. 2557  
 Zhang, Q. S. 8755  
 Zhang, R. Y. 10893  
 Zhang, S. 6304  
 Zhang, S. J. 3557  
 Zhang, S. K. 10924  
 Zhang, S. Y. 8456  
 Zhang, T. Y. 9227  
 Zhang, W. 2149, 3205  
 Zhang, W. Q. 7333  
 Zhang, W. X. 10109  
 Zhang, W. Y. 6956, 8179  
 Zhang, X. 6069  
 Zhang, X. B. 3491  
 Zhang, X. C. 6095  
 Zhang, X. D. 10736  
 Zhang, X. G. 3295  
 Zhang, X. J. 11081  
 Zhang, X. L. 7509  
 Zhang, X. M. 5792, 12041  
 Zhang, X. P. 10008  
 Zhang, X. W. 666  
 Zhang, X. X. 4444, 6491, 8012, 9955  
 Zhang, Y. 3453, 8261  
 Zhang, Y. J. 11555  
 Zhang, Y. L. 8089  
 Zhang, Y. M. 9211  
 Zhang, Y. Q. 7106, 8630, 10202  
 Zhang, Y. S. 12035  
 Zhang, Y. X. 10919  
 Zhang, Y. Y. 5310, 8597  
 Zhang, Y. Z. 11525  
 Zhang, Z. 1756, 6471, 7509, 8263  
 Zhang, Z. C. 10711  
 Zhang, Z. K. 11963  
 Zhang, Z. L. 2201, 2886, 11143  
 Zhang, Z. N. 11143  
 Zhang, Z. Q. 25, 715, 1625, 3200, 9352, 9438, 10980, 11287, 12024  
 Zhang, Z. S. 22, 9730  
 Zhang, Z. Y. 7254  
 Zhao, B. G. 8754  
 Zhao, G. 8168, 9585, 11590  
 Zhao, G. G. 4977  
 Zhao, G. Y. 396, 441  
 Zhao, H. S. 1593  
 Zhao, H. Y. 7127  
 Zhao, J. 2372, 9233  
 Zhao, J. H. 3344, 9677  
 Zhao, J. Z. 1276, 11577  
 Zhao, K. J. 7171, 10865  
 Zhao, S. B. 11998  
 Zhao, S. D. 7671  
 Zhao, S. S. 6359  
 Zhao, S. X. 9733  
 Zhao, S. Y. 8245, 10754  
 Zhao, T. S. 10331  
 Zhao, W. S. 10856  
 Zhao, X. 10006  
 Zhao, X. F. 92, 3238  
 Zhao, X. Q. 9887  
 Zhao, Y. 412  
 Zhao, Y. F. 8821  
 Zhao, Y. Q. 412, 4245  
 Zhao, Y. Z. 589  
 Zhao, Z. M. 9349, 10396  
 Zhao, Z. W. 9168  
 Zhen, Z. G. 10797  
 Zheng, B. Z. 11829  
 Zheng, F. K. 20  
 Zheng, F. Q. 1861, 3097  
 Zheng, J. 7493  
 Zheng, J. Q. 2067  
 Zheng, L. 10255  
 Zheng, L. Y. 9052, 11381  
 Zheng, X. M. 3253  
 Zheng, Y. Q. 9637  
 Zheng, Y. X. 7861  
 Zheng, Z. M. 19, 9228, 10133  
 Zhi, J. R. 8376  
 Zhigalov, M. N. 415  
 Zhimo, Z. 10965  
 Zhimulev, I. F. 11274  
 Zhong, C. Z. 9446  
 Zhong, H. 2703, 3337, 9586-9587, 9983  
 Zhong, H. S. 2454  
 Zhong, L. S. 262  
 Zhong, T. S. 6956  
 Zhong, X. C. 9200  
 Zhong, Y. 8123  
 Zhong Yi 8123  
 Zhou, A. M. 6339, 10799  
 Zhou, B. H. 6317  
 Zhou, B. J. 8216  
 Zhou, C. 5067  
 Zhou, C. A. 5543, 7357, 9889  
 Zhou, C. G. 11975  
 Zhou, C. J. 7880  
 Zhou, C. Q. 5064  
 Zhou, D. R. 10255  
 Zhou, D. X. 7214  
 Zhou, F. X. 2471  
 Zhou, G. 10491  
 Zhou, H. H. 10736  
 Zhou, H. Q. 7063  
 Zhou, H. S. 2067  
 Zhou, H. W. 9001  
 Zhou, H. Y. 11528  
 Zhou, J. L. 9643  
 Zhou, M. K. 3655  
 Zhou, P. Q. 6359  
 Zhou, S. J. 8342  
 Zhou, S. L. 10893  
 Zhou, S. W. 2201  
 Zhou, W. 6029  
 Zhou, W. B. 9735  
 Zhou, W. J. 9955  
 Zhou, W. R. 233  
 Zhou, X. 3227, 9335  
 Zhou, X. G. 10839  
 Zhou, Y. C. 7715  
 Zhou, Y. M. 7171, 10865  
 Zhou, Y. S. 7806, 8497  
 Zhou, Y. X. 9263  
 Zhou, Z. H. 5309, 8832, 11905  
 Zhu, C. P. 310  
 Zhu, C. Z. 8168  
 Zhu, D. 7109  
 Zhu, D. X. 7465  
 Zhu, D. Z. 3253  
 Zhu, G. R. 1276, 11577  
 Zhu, H. 6133, 6312  
 Zhu, H. B. 10865  
 Zhu, H. P. 2067  
 Zhu, J. 9315, 9887, 11686  
 Zhu, J. Q. 2119, 3199, 8421, 9529  
 Zhu, J. W. 9181  
 Zhu, K. 4810  
 Zhu, K. Y. 6325  
 Zhu, L. H. 9955  
 Zhu, L. Q. 9226  
 Zhu, M. S. 11365  
 Zhu, R. 6304  
 Zhu, S. 159



Zhu, S. X. 7623  
Zhu, X. P. 7831  
Zhu, Y. 3491, 3655  
Zhu, Y. C. 4459, 6520  
Zhu, Y. X. 9944  
Zhuang, J. Y. 2317  
Zhuang, P. J. 8498  
Zhuang, Y. Q. 6492  
Ziat, N. 6228  
Zibokere, D. S. 8999  
Zidan, H. Z. 633  
Zidan, Z. H. 8737-8738  
Ziegler, C. 980, 7072  
Ziegler, H. 8312-8313  
Ziegler, J. 1162  
Ziegler, R. 3826, 8176, 9171, 9188  
Zilberman, D. 416, 10510-10511  
Zimmerli, E. 5127  
Zimmerman, E. C. 4816-4818  
Zimmerman, G. 7470  
Zimmermann, F. J. P. 9721  
Zimmermann, F. K. 5143, 10220  
Zimmermann, G. 1282, 2187  
Zimmermann, M. 4399, 11354  
Zimowska, G. 4352, 7055, 9131, 11160  
Zinkl, J. G. 1378  
Zinkler, D. 10179  
Zinn, K. 1012  
Zinovjev, A. G. 4846  
Zinovjeva, K. B. 6073  
Ziping, Y. 5295  
Zitko, V. 4314  
Zitnan, D. 9153  
Žitňanská, O. 3099  
Zivitz, M. J. 11023  
Zivkovich, C. A. 8682  
Zlobina, A. I. 9611  
Zlotkowski, J. 3091  
Žnidaric, D. 5325  
Žnidarić, G. 7915  
Znutienė, S. 2878  
Zoberi, M. H. 11503  
Zobiare, S. M. 3330  
Zoest, R. van 8589  
Zolla, L. 634  
Zollikofer, C. P. E. 283-285  
Zolnerowich, G. 3767  
Zolubas, P. 3052  
Zong, L. B. 7887, 9446  
Zongo, J. O. 1417, 2440, 8380  
Zonneveld, C. 1306  
Zonta-de-Carvalho, R. C. 5251  
Zorrilla, M. 1621  
Zoth, M. 5527, 6626  
Zou, B. H. 5300  
Zou, F. 7623  
Zou, J. 9997  
Zou, J. J. 5543, 7357, 9889  
Zou, J. P. 4746  
Zou, P. 9050  
Zraket, C. A. 4914  
Zrzavý, J. 62, 2860  
Zschokke, S. 201  
Zsellér, I. H. 10998  
Zuang, B. C. 6537  
Zuben, C. J. 2881  
Zuben, C. J. von 5130  
Zubrzycki, I. Z. 5935  
Zucchi, H. 942, 1063  
Zuckerman, B. M. 3149  
Zucoloto, F. S. 1169, 2048, 5871, 10873  
Zuidema, D. 7443  
Zuilekom, W. J. van 7614  
Zukeyama, H. 7853  
Zuluaga, I. 3472  
Zuluaga, J. I. 11742  
Zulueta, P. de 5955  
Zumbado, C. 10891  
Zumr, V. 7905, 12006-12007  
Zuo, G. S. 311, 10912  
Zuparko, R. L. 8320, 8887  
ZupPELLI, A. 2350  
Žuraňska, I. 8672  
Žurek, M. 8420  
Zürn, A. 2271  
Žurovec, M. 8231, 11272

Zuska, J. 6121  
Zwaan, G. 954  
Zwanepol, S. 623, 7779, 8954  
Zwart, R. 4249  
Zwick, M. E. 11282  
Zwölfer, H. 6856







# SUBJECT INDEX

- 2-Pyridine**, effects, *Manduca sexta* 102  
**Abacarus hystrix**, *Lolium*, Australia 583  
**Abacarus sacchari**  
 control, chemical control 5584  
 ecology, population dynamics 5584  
 sugarcane, West Bengal 5584  
**Abalakeus chekei**  
 hosts, *Hieroglyphus daganensis* 3448  
 sorghum, fields, Niger 3448  
 taxonomy, new species 3448  
**Abamectin**  
 analysis 2294  
 control  
   *Aonidia lauri*, *Laurus nobilis* 10005  
   arthropod pests  
     *Citrus* 11900  
     strawberries 11868  
   *Bemisia tabaci*, vegetables 11774  
   *Cydia pomonella*, apples 11849  
   insect pests, tomatoes 8733  
   *Panonychus ulmi*, apples 4548  
   *Pyrrhalta luteola*, *Ulmus pumila* 6764  
   *Scrobipalpus absoluta*, tomatoes 2535  
   *Tetranychus cinnabarinus*, greenhouse crops 10816  
   *Tetranychus urticae*  
     apples 5522  
     roses 10980  
   *Thrips palmi*, vegetables 11775  
   *Trialeurodes vaporariorum* 4219  
 effects  
   insect pests 8132  
   *Neoseiulus fallacis* 3344  
   *Oligota fageli* 5523  
   *Plutella xylostella* 6256  
   *Tetranychus urticae* 1710  
 extraction, soil 7308  
 residues  
   apples 8575  
     determination 8575  
   soil 7308  
 resistance  
   arthropod pests 7527  
   *Plutella xylostella* 10548  
   *Tetranychus urticae* 9999  
 toxicity  
   *Cydia pomonella* 11849  
   Eulophidae 7577  
   *Plutella xylostella* 11577  
   *Stethorus punctum* 10581  
   *Uroleucon compositae* 11584  
**Abamectin-8,9-oxide**, toxicity, *Cydia pomonella* 11849  
**Abax ater** (see *A. parallelepipedus*)  
**Abax parallelepipedus**  
 diets, determination 10375  
 ecology, habitats 5703  
*Rubus*, habitats, France 5703  
**Abax parallelus**, Germany 1128  
**Abelmoschus esculentus** (see Okras)  
**Abgrallaspis cyanophylli**  
 potatoes 11790  
 predators 11790  
**Abies**  
   *Danaus plexippus*, Mexico 5679  
   *Diplopsocus*, Asia 14  
   forests, *Dasyceus bicolor*, USA 35  
   habitats, Chrysopidae, Spain 4674  
   *Hyllobius abietis*, Czech Republic 12006  
**Abies alba**  
   *Argyresthia illuminatella*, Italy 9996  
   *Cinara confinis*, Bulgaria 755  
   *Dreyfusia nordmannianae* 183  
   *Epinotia nigricana*, Italy 9995  
   habitats, parasitoids, Italy 9995  
   insect pests  
     Poland 12017  
     yield losses 12017  
   insects, Poland 4742  
   *Lissonota*, Italy 9996  
   *Phenacoccus longoi*, Italy 4744  
**Abies balsamea**  
   *Choristoneura fumiferana* 8929  
   *Abies balsamea* cont.  
     *Choristoneura fumiferana* cont.  
       Canada 8921  
       damage 8921  
       Maine 2690  
       Ontario 756, 7960  
       Quebec 2711, 8926  
     endophytes, toxicity, *Choristoneura fumiferana* 8514  
     extracts, *Choristoneura fumiferana* 1703  
     forests, *Apanteles fumiferanae*, Ontario 7960  
     insecticides, residues 7907  
     Lepidoptera, New Brunswick 5678  
     *Lymantria dispar* 723  
     pests  
       Canada, books 891  
       control 891  
       damage 891  
**Abies concolor**  
   *Choristoneura occidentalis*, Mexico 8896  
   *Mindarus kinseyi*, California 10975  
   *Scolytus ventralis*  
     California 777  
     susceptibility 777  
**Abies fraseri**  
   *Dreyfusia piceae*  
     damage 8927-8928  
     USA 8927  
   forests, *Dasyceus bicolor*, USA 35  
**Abies grandis**  
   *Choristoneura occidentalis*, Oregon 4720  
   *Dendroctonus micans* 5662  
   *Epinotia fraternana*, UK 2842  
   forests, *Bassus epinotiae*, UK 2842  
   pest resistance 10967  
**Abies lasiocarpa**  
   *Choristoneura occidentalis*, Mexico 8896  
   *Dendroctonus rufipennis*  
     Colorado 3656  
     outbreaks 3656  
   *Dryocoetes confusus*, British Columbia 1702  
   *Orgyia pseudotsugata*  
     damage 8930  
     outbreaks 8930  
     Utah 8930  
   *Thrips nelsoni* 919  
**Abies nordmanniana**, *Leucopis atratula*, British Columbia 4745  
**Abies pindrow**  
   *Dioryctria abietella*, India 5663  
   forests, beneficial insects, India 5663  
**Abies religiosa**, *Mindarus remaudierei*, Mexico 10975  
**Abies sachalinensis**, *Cinara todocola*, Hokkaido 778  
**Abracris flavolineata**, biochemistry, enzymes 11180  
**Abramisa brama**, insecticides, effects 8519  
**Abraxas**  
   parasitoids 8  
   *Pinus*, Fujian 8  
**Abraxas grossulariata**  
   biochemistry, secretions 4566  
   food plants 4566  
   Hungary 4360  
   pheromones 4360  
**Abraxas sylvata**  
   Hungary 4360  
   pheromones 4360  
**Absidia corymbifera**, hosts, *Pyrilla perpusilla* 6722  
**AC-303,360**, effects, animals 2278  
**AC-303630**  
   mode of action 3313  
   toxicity, *Plutella xylostella* 11577  
**AC-801757** (see Tebufenpyrad)  
**Acacia**  
   Formicidae, South Africa 12055  
   *Pseudomyrmex ferrugineus*, interactions 9072  
   *Schistocerca gregaria*, West Africa 8468  
**Acacia asak**, *Bruchidius*, Saudi Arabia 12002  
**Acacia auriculiformis**, Acizzia, Philippines 2682  
**Acacia catechu**  
   insect pests, Pakistan 8850  
   insects, Delhi 10042  
**Acacia caven**, *Pseudopachymerina spinipes*, Chile 5564  
**Acacia cochliacantha**, *Acmaeodera*, Mexico 36  
**Acacia cyanophylla**, Diaspididae, Israel 7221, 11309  
**Acacia drepanolobium**  
   Cecidomyiidae  
     galls 3772  
     Kenya 3772  
   insects, Tanzania 4463  
**Acacia ehrenbergiana**, *Bruchidius saudicus*, Saudi Arabia 12002  
**Acacia farnesiana**, *Caryedon serratus* 8890  
**Acacia gerrardii**, *Bruchidius arabius*, Saudi Arabia 12002  
**Acacia greggii**, *Stator limbatus* 4776, 6033  
**Acacia hamulosa**, *Bruchidius*, Saudi Arabia 12002  
**Acacia hebeclada**, Bruchidae, interactions 1677  
**Acacia iteaphylla**, *Mictis profana*, South Australia 9301  
**Acacia leucophloea**, insects, Delhi 10042  
**Acacia longifolia**  
   *Acizzia uncatoides*, California 8943  
   *Amblyseius carverae*, South Australia 735  
**Acacia longifolia var. floribunda**  
   *Forficula auricularia*  
     damage 2720  
     Italy 2720  
   habitats, *Triarthria setipennis*, Italy 2720  
**Acacia mangium**  
   Acizzia, Philippines 2682  
   damage 6766  
   Philippines 6766  
**Acacia mearnsii**, insect pests, Brazil 3629  
**Acacia mellifera**  
   Cecidomyiidae  
     galls 3772  
     Kenya 3772  
**Acacia negrii**, *Bruchidius arabius*, Saudi Arabia 12002  
**Acacia nilotica**  
   Bruchidae, interactions 1677  
   *Caryedon serratus* 8890  
   Cecidomyiidae  
     galls 3772  
     Kenya 3772  
   control, biological control 8011  
   *Hypolixus truncatulus*  
     damage 6773  
     Madhya Pradesh 6773  
   insect pests, Tamil Nadu 5779-5780  
   insects  
     pollination 6772  
     Senegal 6772  
**Acacia oerfota**, *Bruchidius*, Saudi Arabia 12002  
**Acacia pennatula**, *Acmaeodera*, Mexico 36  
**Acacia praecox**, *Dorcacerus barbatus*, Argentina 4689  
**Acacia senegal**  
   Cecidomyiidae  
     galls 3772  
     Kenya 3772  
   Coleoptera, Sudan 6776  
   insects  
     pollination 6772  
     Senegal 6772  
**Acacia seyal**  
   *Bruchidius*, Saudi Arabia 12002  
   Coleoptera, Sudan 6776  
**Acacia tortilis**  
   Bruchidae, interactions 1677  
   *Bruchidius*, Saudi Arabia 12002



**Acacia tortilis** cont.

- Bruchidius andreweesi*, Rajasthan 8861
- Caryedon serratus*, Pakistan 8850
- Cecidomyiidae
  - galls 3772
  - Kenya 3772
- insects
  - pollination 6772
  - Senegal 6772

**Acaciococcus**, taxonomy, new genus 4463**Acaciococcus hockingi**

- Acacia drepanolobium*, Tanzania 4463
- Crematogaster nigriceps prelli*, interactions 4463

## taxonomy, new species 4463

**Acacidiplosis**, taxonomy, new genus 3772**Acacidiplosis spinosa**

- Acacia*
  - galls 3772
  - Kenya 3772
- taxonomy, new species 3772

**Acalitus phloeocoptes**

- biology 6656
- plums, Hungary 6656

**Acalolepta cervina**

- Tectona grandis*
  - damage 8889
  - Thailand 8889

**Acalolepta luxuriosa**

- Aralia elata*, Honshu 10999
- ecology, population dynamics 10999

**Acalolepta mixta**

- biology 11873
- dispersal 11872
- ecology 11873
- grapes, New South Wales 11872-11873
- pathogens 11873

**Acalymma trivittata**

- ecology, population dynamics 11357
- Mexico 11357

**Acalymma vittatum**

- baits, effects 4536
- biology 4540
- control
  - chemical control 4519, 9822
  - trapping 4541
- cucumbers 4541
- Cucurbita texana*, damage 6619
- Cucurbitaceae 4536, 4540
- fruit vegetables, Kentucky 4519
- melons, Indiana 9822
- plant pathogens, transmission 9822

**Acanthaspis pedestris**, biology 5024-5025**Acanthiophilus helianthi**

- Centaurea solstitialis*
  - Italy 5729
  - resistance 5729
- control, chemical control 11926
- safflower, Pakistan 11926

**Acanthocinus aedilis**

- biology
  - behaviour 2390
  - reproduction 8916
- Pinus* 8916
- Pinus sylvestris*, Sweden 2390
- predators 8916
- Tomicus piniperda*, interactions 8916

**Acanthocinus griseus**

- biology 7155
- Shikoku 7155
- Acanthococcus kaki*, predators 10374

**Acanthognathus rudis**

- biology 6055
- predators 6055
- Sao Paulo 6055

**Acantholycosa lignaria**, biology, behaviour 5049**Acantholyda erythrocephala**

- biology, development 4730
- control, chemical control 394
- insecticides, effects 394
- Pinus*, Ontario 394
- Pinus resinosa*, Ontario 4730

**Acanthophorus confinis**, *Acacia*, Sudan 6776**Acanthophorus spinicornis**, introduction, UK 2023**Acanthopius agnata** (see *Chrysodeixis agnata*)**Acanthoscelides**, Fabaceae, Hungary 8968**Acanthoscelides obtectus**

- biochemistry, enzymes 7038
- biology 12066
  - behaviour 5742
- Fabaceae, commodities 12066
- genetics, population genetics 8237
- parasitoids 5062
- Phaseolus vulgaris*, commodities 5742
- plant oils, effects 5692

**Acanthosoma denticauda**

- biology, development 9270
- Hokkaido 9270

**Acanthosoma haemorrhoidale angulata**

- biology, development 9270
- Hokkaido 9270

**Acanthosomatidae**, morphology, mouthparts 1862**Acaphylla theae**

- ecology, population dynamics 8821
- natural enemies 8821
- tea
  - China 8821
  - Tamil Nadu 3132, 3597

**Acarapis dorsalis**

- distribution, Iran 4090
- hosts, *Apis mellifera* 4090

**Acarapis externus**

- distribution, Iran 4090
- hosts, *Apis mellifera* 4090

**Acarapis woodi**

- control, chemical control 334, 4108
- distribution
  - Iran 4090
  - Israel 334
- hosts, *Apis mellifera* 334, 2120, 4090, 4108, 8399, 9379, 9514
- Ohio 4108
- staining 9379
- USA 8399

**Acari** (see also Mites)

- acaricides
  - effects 1323
  - toxicity 8493
- Antarctica 7266
- apples
  - Massachusetts 648
  - Utah 650
- attractants 1650
- broadleaves
  - galls 11348
  - UK 11348
- Bromelia hemisphaerica*, Mexico 811
- cassava 2512
- checklists, Antarctica 6089
- Citrus*, China 8782
- clementines, Italy 10878
- control 7833
  - biological control 10465
  - chemical control 4483, 8782, 8838, 12050

## cotton

- Egypt 1633
- Maharashtra 8838

## crops, Greece 8623

## ecology 9112

- arthropod communities 11403
- environmental factors 3998
- habitats 648, 650, 3418
- diversity 4021
- population dynamics 6086, 10887

## edible fungi, China 12050

## Finland 3369

## forecasting 10887

## forest trees

- galls 11347, 11979
- UK 11347, 11979

## forests, Slovakia 3998

## fruit vegetables, Austria 10465

## fungicides, effects 5357

## Germany 1650

*Gutierrezia*, Argentina 5716

## habitats

- Slovakia 4021
- Yugoslavia 1531

## hosts, Passalidae 10078

## insecticides, effects 3369

## kiwifruits, Chile 9901

*Macaranga hosi*, Malaysia 814

## Netherlands 6086

## nomenclature 12099

## orchards, Slovakia 7802

**Acari** cont.

- Orchidaceae, Ryukyu Archipelago 7977
- ornamental plants, Austria 10465
- ornamental woody plants, USA 6928
- peaches, Taiwan 2563
- plants, UK 2397
- population dynamics, conferences 2811
- predators 8623
- prey, *Tenebrio molitor* 7373
- root crops 4483
- sampling 5115, 6086
- soil, Slovakia 3998
- strawberries 7833
- taxonomy 10078
- vineyards, Hungary 7837
- woody plants
  - Korea Republic 3418
  - Victoria 1639
- Ziziphus sativa*, China 10887

**Acaricide resistance**

- Euseius finlandicus* 4122, 5518
- Eutetranychus banksi* 3336
- Panonychus citri* 10875, 11580
- Panonychus ulmi* 4562, 7530, 8497, 11857
- Tetranychus urticae* 2279, 2724, 4579, 9564, 9999
- Varroa jacobsoni* 2108, 8509

**Acaricides**

- control
  - Acari, strawberries 7833
  - Tetranychus*, roses 12028
  - Tetranychus urticae* 2226
- degradation, soil 1375
- development, reviews 433
- effects
  - birds 451
  - Leptomastix dactylopii* 5340
- legislation, nomenclature 428
- nontarget effects
  - domestic animals 3384
  - Stethorus punctillum* 11444
  - Syrphidae 2111
- registration, Italy 1305, 3313
- residues, foods 6904
- synthesis 6333
- toxicity, *Tetranychus urticae* 9564-9565

**Acaridae**

- coffee, habitats, Queensland 5596
- soil, Egypt 676

**Acarus immobilis**, pheromones 974**Acarus siro**

- cereals, commodities, Italy 6879
- control, chemical control 4802
- ectoparasites 6879
- predators 9274
- wheat, commodities, UK 4802

**Acca sellowiana**

- Anastrepha fraterculus*, Santa Catarina 4605

**Ulotingis nitor**

- damage 4603
- Santa Catarina 4603

**Accipiter striatus**, insecticides, effects 8550**Acephate**

- adsorption, soil 2366
- control
  - Aleurocanthus woglumi*, mandarins 5557
  - Anthonomus grandis*, cotton 4654
  - Bemisia tabaci*, tomatoes 8742
  - Frankliniella schultzei*, tomatoes 8736
  - Helicoverpa armigera*, pigeon peas 7743
  - insect pests
    - cowpeas 8702
    - okras 6624
    - soyabeans 9750
  - Lepidoptera, *Capsicum annuum* 11832
  - Maduraria obscurella*, *Vigna mungo* 6890
  - Metacalfa pruinosa* 11854
  - Myzus nicotianae*, tobacco 8827
  - Myzus persicae*, tobacco 5599
  - Noctuidae, cotton 11969
  - Pyrrhalta viburni*, *Viburnum tinus* 12027
  - Saracalis kahawaluokalani*, *Lagerstroemia indica* 2719



- Accephate** *cont.*  
*control cont.*  
*Scrobipalpula absoluta*, tomatoes 2535  
*Thrips tabaci*, onions 4504  
*Tomicus piniperda*, *Pinus sylvestris* 9991  
*Trialeurodes vaporariorum*, *Gerbera jamesonii* 796  
*effects*  
*Bemisia tabaci* 5297  
*Trialeurodes vaporariorum* 10916  
*metabolism*, fruit vegetables 10612  
*mixtures*  
*control*  
*Noctuidae*, cotton 11969  
*Tomicus piniperda* 9991  
*residues*  
*okras* 6624  
*tomatoes* 4528  
*resistance*  
*Cnaphalocrocis medinalis* 10730  
*Frankliniella occidentalis* 6275, 6322  
*toxicity*  
*Braconidae* 10587  
*fishes* 5326  
*Maladera matrida* 8511  
*Steinernema carpocapsae* 7583
- Acer**  
*forests*, *Torymus aceris*, Europe 1826  
*insect pests*, Vermont 5658  
*Megaselia giraudii*, Europe 1826  
*Symmerista*, USA 1151  
*Thrips fallaciosus* 919
- Acer amoenum**  
*Periphyllus californiensis*  
*damage* 8885  
*Japan* 8885
- Acer campestre**  
*Curculionidae*, Slovakia 3648  
*insect pests*, UK 11999  
*Isopoda* 10502
- Acer negundo**  
*Eulecanium transvittatum*, Turkey 6775  
*Hyphantria cunea*, Italy 11703
- Acer platanoides**, Lepidoptera, Finland 2657
- Acer pseudoplatanus**  
*Cameraria ohridella*, Austria 10954  
*Drepanosiphum platanoidis*, UK 5652  
*insect pests*  
*damage* 7908  
*France* 7908  
*Porcellio scaber* 10256  
*Pulvinaria regalis* 5634
- Acer rubrum**  
*Corthylus punctatissimus*, Michigan 3651  
*Empoasca fabae*, resistance 753  
*insect pests*  
*damage* 2655  
*North Carolina* 2655  
*Lymantria dispar* 6747
- Acer saccharinum**, *Drepanaphis acerifoliae*, California 8864
- Acer saccharum**  
*Corthylus punctatissimus*, Michigan 3651  
*extracts*, *effects*, *Lymantria dispar* 736  
*Lymantria dispar* 723  
*resistance* 736  
*Taeniothrips inconsequens*  
*damage* 2674  
*Pennsylvania* 2677, 10955  
*Vermont* 2674  
*Xiphydria maculata*, Maryland 8175
- Aceraceae**, *Taeniothrips inconsequens* 1150
- Aceria**  
*broadleaves*  
*galls* 10950  
*Uttar Pradesh* 10950
- Aceria acnistii**  
*distribution*, Brazil 10984  
*ornamental woody plants*  
*Brazil* 10984  
*damage* 10984
- Aceria bezzii**  
*Celtis australis*  
*damage* 752  
*Italy* 752  
*morphology* 752
- Aceria dioicae**  
*distribution*, Egypt 10949
- Aceria dioicae** *cont.*  
*Tamarix nilotica*  
*Egypt* 10949  
*galls* 10949
- Aceria genistae**  
*Cytisus praecox*  
*galls* 1713  
*UK* 1713
- Aceria jasmini**  
*control*, chemical control 1736  
*Jasminum auriculatum*, Karnataka 1736
- Aceria lateannulatus**  
*Tilia europaea*  
*galls* 7930  
*UK* 7930
- Aceria macrodonis**  
*control*, chemical control 7982  
*Lycium chinense*  
*damage* 7982  
*Korea Republic* 7982
- Aceria mangiferae**  
*mangoes*, South Africa 2582  
*plant pathogens*, transmission 2582
- Aceria parapopuli**  
*Phellinus tremulae*, interactions 10947  
*Populus tremuloides*  
*Canada* 10947  
*galls* 10947
- Aceria tulipae**  
*cereals*, resistance 1421  
*control*, chemical control 6574  
*ecology*, population dynamics 9792  
*garlic*, Honshu 6574, 9792  
*plant pathogens*, transmission 1421
- Acetaldehyde**, attractants, *Apomyelois ceratoniae* 4604
- Acetazolamide**, *effects*, *Locusta migratoria* 2932
- Acetic acid**, *effects*, *Coleoptera* 9558
- Acetogenins**  
*pesticidal properties* 5280  
*structure* 5280
- Acetylcholine**, *effects*, *Manduca sexta* 113
- Acetylcholinesterase**, insecticides, interactions 6295
- Achaea janata**  
*biochemistry*, fat body 10193  
*biology*, circadian rhythm 3067  
*juvenile hormone analogues*, *effects* 5373  
*Oryctes rhinoceros*, interactions 5873  
*physiology*, fat body 5373
- Achaea aranea tepidariumum**  
*ecology*, population dynamics 5541  
*grapes*, habitats 5541  
*prey*, *Tetranychus kanzawai* 5541  
*soyabeans*, fields, Ohio 7733
- Achatina fulica**  
*biology* 4137  
*control* 4137  
*extracts*, medicinal properties 349  
*heavy metals*, *effects* 965  
*morphology* 9457  
*endocrine system* 3251  
*nervous system* 352  
*physiology*  
*digestive system* 3249  
*nervous system* 354, 5201, 6219
- Acheta domesticus**  
*biochemistry*  
*enzymes* 5877  
*juvenile hormones* 9205  
*neuropeptides* 2920  
*biology*, behaviour 9290, 11298  
*insecticides*, *effects* 10544  
*pesticides*, *effects* 3363  
*physiology*  
*endocrine system* 979, 1406  
*excretory system* 5902  
*nervous system* 11202  
*sense organs* 5923
- Achillea millefolium**, *Coleophora caelebipenella*, Europe 584
- Achillea ptarmica**  
*Macrosiphoniella millefolii*  
*galls* 8006  
*UK* 8006
- Achras zapota** (see *Sapodillas*)
- Achroia grisella**  
*physiology*, sound production 7032  
*songs* 7032
- Achrysocharella aetii**, taxonomy, synonyms, of *Neochrysocharis diastatae* 8090
- Achyla racemosa**, insecticides, *effects* 7591
- Acids**, *effects*, *Trirhabda geminata* 11336
- Acinetobacter calcoaceticus**, growth regulators, degradation 4299
- Aciurina mixteca**  
*Mexico* 10092  
*taxonomy*, new species 10092
- Aciurina trixa**  
*biology*, development 2727  
*Chrysothamnus nauseosus*  
*Arizona* 2727  
*galls* 2727
- Acizzia**, *Acacia*, Philippines 2682
- Acizzia uncatoides**  
*control*, biological control 8943  
*ornamental woody plants*, California 8943
- Acleris gloverana**, forest trees, British Columbia 6800
- Acleris schalleriana**, *Viburnum tinus*, Italy 12027
- Acleris variana**, ecology, population dynamics, models 1135
- Acmaeodera apiata**  
*Acacia*, Mexico 36  
*taxonomy*, new species 36
- Acmaeodera aquila**  
*Acacia*, Mexico 36  
*taxonomy*, new species 36
- Acmaeodera lysioma**  
*Acacia*, Mexico 36  
*taxonomy*, new species 36
- Acmaeodera navajo**  
*North America* 9055  
*taxonomy*, new species 9055
- Acmaeodera quadrivittatoides**  
*North America* 9055  
*taxonomy*, new species 9055
- Acmaeodera tenuidigna**  
*Acacia*, Mexico 36  
*taxonomy*, new species 36
- Acmaeodera tildenorum**  
*North America* 9055  
*taxonomy*, new species 9055
- Acnistus cauliflorus**  
*Eriophyidae*  
*Brazil* 10984  
*damage* 10984
- Acompsomyces brunneolus**, hosts, *Coleoptera* 1257
- Acompsomyces corticariae**, hosts, *Coleoptera* 1257
- Acompsomyces ootyi**, hosts, *Coleoptera* 1257
- Acompsomyces pauperculus**, hosts, *Coleoptera* 1257
- Aconitum nasutum**, insecticidal properties 2732
- Acorus calamus**  
*extracts*  
*effects*, *Rhyzopertha dominica* 1769  
*toxicity*, *Prostephanus truncatus* 842  
*oils*, *effects*, *insects* 3316
- Acraea acerata**  
*control*, cultural control 11799  
*sweet potatoes*, Kenya 11799
- Acraea encedana**  
*Africa* 1137, 4034  
*Danaus chrysippus*, interactions 1137, 4034
- Acraea encedon**  
*Africa* 1137, 4034  
*Danaus chrysippus*, interactions 1137, 4034
- Acremonium**  
*Heteronychus arator*, interactions 6513  
*insect pests*, interactions, reviews 5267  
*Parapediasia teterrella*, interactions 4456
- Acremonium coenophialum**  
*Heterorhabditis bacteriophora*, interactions 7452  
*insect pests*, interactions 10747
- Acremonium typhinum**, *Heterorhabditis bacteriophora*, interactions 7452
- Acrida turrita**, Algeria 9362
- Acrididae**  
*Africa* 10488  
*Algeria* 9362  
*Australia* 5163



**Acrididae cont.**

- Benin 7328
  - biological control agents, evaluation 6144
  - biology, behaviour 5448
  - control
    - biological control 7427
    - books 3731
    - chemical control 6358
    - integrated control 8658
    - models 11753
    - trapping 5446
  - distribution, Tamil Nadu 3088
  - ecology 3009, 3088
  - ecosystems 6143
  - environmental factors 4451
  - insect communities 8298
  - population dynamics 3479
  - models 10359
  - ectoparasites 5163
  - fatty acids, attractants 5446
  - food plants, Tamil Nadu 6143
  - France 11295
  - genetics 1032
    - chromosomes 4990
    - mitochondrial DNA 7149
  - grasslands
    - Montana 581, 3479
    - Nebraska 2020
    - South Africa 8671
    - South Dakota 9742
  - Guangdong 7327
  - heavy metals, toxicity 4767
  - India 1032
  - insecticides, effects, nontarget effects 4449
  - insects as food 10392
  - interactions, arthropods 9742
  - millets, Mali 8658
  - Montana 4080
  - morphology 43
  - parasitoids 9431
  - pathogens 7328
  - physiology
    - cold hardiness 11295
    - flight 7067
  - Poland 3009
  - Populus trichocarpa*, Washington 7919
  - predators 581, 2020
  - rangelands
    - Montana 4451
    - Western States of USA 11753
    - Wyoming 5446, 5448
  - Senegal 6358
  - Slovenia 3176
  - steppes, Nei Menggu 8298
  - Streptanthus polygaloides* 4767
  - Tabebuia ochracea*, Minas Gerais 3647
  - taxonomy 43
  - USA 10359
  - West Africa 10484-10486
- Acridoidea**
- ecology, habitats 1122
  - Germany 1122
  - Guangdong 7327
  - nature conservation, Netherlands 1116
- Acridotheres ginginianus**, prey, *Holotrichia* 4029
- Acridotheres tristis**
- prey
    - Holotrichia* 4029
    - Thysanoplusia orichalcea* 1469
- Acrinathrin**
- control, *Tetranychus cinnabarinus*, green-house crops 10816
  - effects, *Oligota fageli* 5523
  - residues, synthesis 4236
- Acrobasis betulella**
- Betula*, Quebec 4692
  - Betula papyrifera*, Quebec 737
  - biology, behaviour 737, 4692
  - ecology, population dynamics 4692
- Acrobasis nuxvorella**
- ecology, environmental factors, models 11916
  - pecans, Texas 11916
- Acrobasis vaccinii**
- biology, behaviour 7061
  - food plants, USA 7061
  - monitoring, traps 7061
  - pheromones 7061

**Acrocera bimaculata**

- biology, development 5154
  - distribution, North America 5154
  - hosts, *Coras montanus* 5154
- Acrocercops**, *Syzygium cumini*, Uttar Pradesh 9662
- Acrocercops melanoplecta**, *Castanopsis cuspidata*, Japan 6978
- Acrocercops syngamma**, cashews, damage 6704
- Acrolein**, control, Coleoptera, cereal grains 11040
- Acrolepia sapporensis**
- Allium*, Korea Republic 5487
  - ecology, population dynamics 5487
- Acrolepiopsis assectella**
- biology, behaviour 97
  - leeks, Europe 97
  - monitoring, traps 97
  - parasitoids 2238
- Acrolepiopsis sapporensis** (see *Acrolepia sapporensis*)
- Acromyrmex**
- Argentina 4023
  - biology, environmental factors 1980
- Brachiaria**
- Colombia 7720
  - resistance 7720
  - control, cultural control 7720
  - databases 11417
  - ecology 4023
  - population dynamics 1980
- Eucalyptus*, Bahia 739
- morphology, integument 2883
- Acromyrmex heyeri**
- control, chemical control 4216
  - Rio Grande do Sul 4216
- Acromyrmex landolti**
- Andropogon gayanus*
  - Colombia 5454
  - damage 5454
  - morphology, mouthparts 2882
  - Venezuela 2882
- Acromyrmex landolti balzani**
- Minas Gerais 9118
  - morphology 9118
- Acromyrmex lundii**, biology, behaviour 3187
- Acromyrmex octospinosus**
- biology, behaviour 6064
  - Costa Rica 6064
- Acromyrmex octospinosus volcanus**
- biology, behaviour 6064
  - Costa Rica 6064
- Acromyrmex subterraneus**
- Eucalyptus*, forests, Minas Gerais 5053
  - morphology, mouthparts 2882
  - Phylodryas olfersii*, interactions 5053
  - Venezuela 2882
- Acromyrmex subterraneus subterraneus**, morphology, venom glands 3784
- Acrionicta rumicis**
- biology, life history 7635
  - control 7635
  - crops, Jiangsu 7635
  - natural enemies 7635
- Acrosternum**, pheromones 975
- Acrosternum apicicorne**
- biology, life cycle 11773
  - Phaseolus vulgaris*, Argentina 11773
- Acrosternum heegeri**
- morphology 4893
  - Pakistan 4893
- Acrosternum pallidoconsersum**
- parasitoids 11918
  - pathogens 10434
- Acrotylus**, predators 274
- Acrotylus humbertianus**, biology, environmental factors 7326
- Acrotylus insubricus**, taxonomy, nomenclature 9100
- Actebia fennica** (see *Ochropleura fennica*)
- Actellic** (see Pirimiphos-methyl)
- Actias luna**
- Betula papyrifera* 10936
  - carbon dioxide enrichment, effects 10936
- Actinidia**
- Aspidiotus destructor*, Hunan 5543
  - Pseudaulacaspis cockerelli*, Hunan 7357
- Actinidia deliciosa** (see Kiwifruits)
- Actinidin**, effects, *Lasius niger* 7204

**Actinote antea**

- biology, life cycle 3294
  - control, *Chromolaena odorata*, evaluation 3294
- Actinotia hyperici**
- distribution, Netherlands 10297
  - Hypericum* 10297
- Aculeata**
- distribution, UK 3120
  - sampling 11350
  - UK 11350
- Aculops lycopersici**, tomatoes, damage 5504
- Aculops tetanothrix** (see *Aculus tetanothrix*)
- Aculus fockeui**
- biology 9848
  - peaches, Sichuan 9848
- Aculus mansonii**, taxonomy, synonyms, *A. ribis* 3727
- Aculus ribis**, taxonomy, synonyms, of *A. mansonii* 3727
- Aculus schlechtendalii**
- apples
    - Germany 5524
    - Italy 11856
    - New York 4553
    - Nova Scotia 9839
  - control
    - biological control 4553
    - chemical control 2225, 11856
    - integrated control 9839
  - Honshu 2225
  - parasitoids 11856
  - predators 2225, 5524, 11856
- Aculus tetanothrix**
- Salix*
    - galls 5650
    - New York 5650
    - resistance 5650
- Acupalpus meridianus**
- biology, behaviour 203
  - fields, Belgium 203
- Acyrtosiphon brevicorne**
- biology, environmental factors 4011
  - Dryas octopetala* 4011
- Acyrtosiphon kondoi**
- distribution, Maryland 2479
  - lucerne
    - Maryland 2479
    - Oklahoma 3485
  - morphology, models 3485
  - pastures
    - Western Australia 11756
    - yield losses 11756
  - predators 2479
- Acyrtosiphon pisum**
- bacteria, symbiosis 11770
  - biochemistry
    - amino acids 9215
    - chemical composition 5940
    - proteins 1919
  - biology 3016
    - behaviour 11770
    - environmental factors 1475, 6411-6412
  - British Columbia 8266
  - Buchnera*, symbiosis 967
  - clones, differentiation 3134
  - diets 2900, 5859, 11566
  - electroantennograms 4052
  - faba beans 1475, 6412, 7554, 11770
  - Germany 7736
  - food plants 2900, 4467, 6411
  - genetics
    - DNA 8230
    - genetic variation 4467
    - population genetics 174
  - grain legumes, Europe 10769
  - growth regulators, effects 4349
  - hyperparasitoids 8266
  - insecticides
    - effects 10554
    - toxicity 7554
  - irrigation, effects 8679, 8683
  - lucerne
    - British Columbia 585
    - damage 8683
    - Iowa 3484
    - Manitoba 8679
    - Maryland 2479
    - resistance 7724



- Acyrtosiphon pisum** *cont.*  
parasitoids 184, 205, 585, 7343, 7351, 8367, 9436  
pathogens 1269, 6228  
pesticides, effects 6326  
physiology  
development 2900  
nutrition 3810, 5859, 5862  
plant extracts  
effects 11564  
toxicity 7554  
plant pathogens, transmission 10769  
predators 267, 586, 3484, 5168, 11428  
Sweden 586  
symbionts, interactions 5940, 6326  
*Trifolium pratense*, resistance 4461  
*Verticillium lecanii*, toxins, effects 1260
- Acyrtosiphon solani** (see *Aulacorthum solani*)
- Acyrtosiphon svalbardicum**  
biology, environmental factors 8970  
*Dryas octopetala*, Spitsbergen 8970
- Acyrtosiphon pisum** (see *Acyrtosiphon pisum*)
- Adalia bipunctata**  
bacteria, interactions 3205  
biochemistry, chemical composition 9219-9220  
biology 2197  
behaviour 1992  
reproduction 1873
- Coccipolipus**  
ectoparasites 11423  
transmission 11423
- control, *Acizzia uncatoides*, ornamental woody plants 8943  
distribution, Japan 5183  
ecology, population dynamics 3227, 6437  
faba beans  
fields  
Belgium 7734  
Germany 7736
- Formicidae, interactions 8256  
genetics 1018  
genetic polymorphism 172  
population genetics, colour 9259  
growth regulators, effects 444  
insecticides, pathogenicity 9482  
*Iva frutescens*, habitats, Rhode Island 8972  
lucerne, fields, Iowa 3484  
parasitoids 7358  
pathogens 2197  
predators 9219-9220, 9418  
prey  
*Acyrtosiphon kondoi* 2479  
Aphididae 6437  
*Aphis fabae* 7734, 8256  
lucerne, insect pests 3484  
*Ostrinia nubilalis* 9482  
*Uroleucon ambrosiae* 8972
- Rhaphiolepis umbellata*, habitats, Honshu 5183  
Russia 172  
UK 3227, 8256  
wheat, fields, Syria 6437
- Adalia decempunctata**  
biochemistry, chemical composition 9220  
parasitoids 7358  
predators 9220
- Adalia variegata** (see *Hippodamia variegata*)
- Adansonina digitata**, *Dysdercus fasciatus*, Kenya 6408
- Adelges abietis** (see *Sacchiphantes abietis*)
- Adelges japonicus**  
biology, behaviour 4743  
ecology, population dynamics 2016  
*Picea jezoensis*  
galls 2016, 4743  
Hokkaido 2016
- Adelges laricis**  
biology 5022  
*Larix europaea* 5022
- Adelges piceae** (see *Dreyfusia piceae*)
- Adelges tsugae**  
predators 12018  
*Tsuga canadensis*, Connecticut 12018
- Adelgidae**  
Africa 2828  
books 2828  
taxonomy 2828
- Adelphocoris lineolatus**  
biology, environmental factors 4458  
control, physical control 9744  
irrigation, effects 8679  
lucerne  
damage 4458  
Hungary 4458  
Manitoba 8679  
predators 9744  
soyabeans, Yugoslavia 6536
- Adenostyles alliariae**  
*Oreina cacaliae* 998  
*Oreina elongata* 214
- Adetomyrma**, taxonomy, new genus 1818
- Adetomyrma venatrix**  
Madagascar 1818  
taxonomy, new species 1818
- Adhatoda vasica**, extracts, effects, *Poecilocerus pictus* 6147
- Adipokinetic hormones**  
effects  
*Locusta migratoria* 4951  
*Manduca sexta* 8176  
*Locusta migratoria* 5941  
*Manduca sexta* 9171
- Aditrochus**  
morphology 10935  
*Nothofagus*, galls 10935  
taxonomy 10935
- Aditrochus bouceki**, taxonomy, new species 10935
- Aditrochus chilensis**, taxonomy, new species 10935
- Aditrochus coiuiensis**  
*Nothofagus dombeyi*, Argentina 10935  
taxonomy, new species 10935
- Aditrochus fagicolus**, *Nothofagus pumilio*, Argentina 10935
- Aditrochus gnirensis**, *Nothofagus antarctica*, Argentina 10935
- Adjuvants**  
effects  
neem extracts 11831  
*Plutella xylostella* 7513  
interactions, insecticides 9552
- Admerus triguttulus** (see *Sehirus triguttulus*)
- Adonia variegata** (see *Hippodamia variegata*)
- Adoretus**, tomatoes, Jammu and Kashmir 6601
- Adoretus versutus**  
cocoa, Fiji 7884  
Fiji 1264  
pathogens 1264, 7884
- Adoryphorus couloui**  
biology, behaviour 2476  
pastures 2476  
pathogens 10436
- Adoxophyes**  
*Bacillus thuringiensis* subsp. *kurstaki*, toxins, toxicity 7463  
biology, development 3230  
diets 7463  
parasitoids 3230
- Adoxophyes congruana** (see *A. orana*)
- Adoxophyes orana**  
apples  
China 3094  
Germany 8753  
Ukraine 2559  
Yugoslavia 1539  
biology 2559  
China 921  
control  
chemical control 8753  
mating disruption 2543-2544  
ecology, arthropod communities 3094  
fruits, Europe 2543-2544  
monitoring, traps 1539  
parasitoids 921  
pathogens 7438, 7440
- Adoxophyes orana fasciata**  
apples, Honshu 10847  
insecticides, resistance 10847
- Adranethrips pallidus**  
Citrus, Florida 5554  
distribution, USA 5554
- Adriatic Sea**, *Mytilus galloprovincialis*, insecticide residues 4300
- Adscita**  
North Africa 9069
- Adscita** *cont.*  
taxonomy 9059, 9069
- Aegicerus corniculatus**, *Afrocypholaelaps africana*, Queensland 11288
- Aegilops**, *Aceria tulipae*, resistance 1421
- Aegle marmelos**, insect pests, Uttar Pradesh 9662
- Aelia**, morphology 3792
- Aeneolamia**  
pastures, Colombia 5457  
predators 5457
- Aeneolamia reducta**, *Brachiaria*, resistance 2474
- Aeneolamia selecta selecta**  
control, cultural control 3480  
pastures, Brazil 3480
- Aenetus**, taxonomy 8068
- Aenictus**, pheromones 3827
- Aeolesthes sarta**  
biology 746  
control 746  
*Ulmus minor*, Uzbekistan 746
- Aeolothripidae**  
Central Europe 3779  
distribution, Philippines 6977  
morphology 6977  
Taiwan 7292  
taxonomy 1147, 7318
- Aeolothrips gloriosus**, morphology 1147
- Aeolothrips intermedius**  
cabbages, fields, France 1505  
ecology, population dynamics 9860  
mulberries, West Bengal 9860  
prey, Thysanoptera 1505
- Aeration**, control, *Cyclocephala pasadenae*, lawns and turf 10987
- Aeroglyphus robustus**  
cereals, commodities 850  
control  
chemical control 9013  
controlled atmospheres 850  
ecology, environmental factors 9013  
wheat, commodities, Manitoba 9013
- Aeromonas caviae**, *Samia cynthia*, symbiosis 3003
- Aeropus sibiricus** (see *Gomphocerus sibiricus*)
- Aesculus hippocastanum**  
*Cameraria ohridella*  
Austria 10954  
damage 4717  
Germany 4717  
*Pulvinaria regalis* 5634
- Aetalion reticulatum**  
genetics, karyotypes 943  
morphology 943
- Aframomum melegueta**  
extracts, effects, *Aphis craccivora* 807  
insecticidal properties 807
- Africa**  
Acrididae, pathogens 1282  
*Aphelinus* 3217  
Aphidoidea 2828  
Aphytis 7283  
Apis, ectoparasites 11443  
*Aprostocetus* 8093  
*Atholus* 8063  
*Bemisia tabaci* 4209  
cassava  
*Mononychellus tanajoa* 2505, 2511  
Tetranychidae 9788  
*Copris* 1822  
cotton, Miridae 10068  
*Diuraphis noxia* 4037  
*Drosophila melanogaster* 1932  
*Ficus*, Agaonidae 8080  
food plants, *Busseola fusca* 6423  
insect pests 5294  
*Leucaena leucocephala*, *Heteropsylla cubana* 1678  
maize, *Spodoptera exempta* 1436  
pesticides, residues 7618  
*Peucetia* 923  
rice  
habitats, natural enemies 1212  
*Maliarpha separata* 1212  
natural enemies 1212  
*Seres* 2864  
*Tenmorrhynchus* 1601
- African cassava mosaic geminivirus**, vectors, *Bemisia tabaci* 11796



***Afrocypholaelaps africana***

*Aegicerus corniculatum*, Queensland  
11288

*Apis mellifera*, phoresy 11288  
biology, life history 11288

**Afrotropical Region, *Halictoxenos* 10083**

*Afugan* (see *Pyrazophos*)

*Agamerms decaudate*, control, Acrididae,  
evaluation 6144

***Agamerms unka***

biology 10448

hosts, *Nilaparvata lugens* 10448

***Aganaspis pelleranoi***

biology

behaviour 6201

development 11173

hosts, *Ceratitis capitata* 6201, 11173

rearing techniques 6201

***Agaon***

*Ficus*

Africa 8080

pollination 8080

***Agaonidae***

ecology 1967

*Ficus*

Indonesia 5700

pollination 5700

South Africa 1967

*Ficus chrysolepis*

Philippines 671

pollination 671

***Agapanthia villosoviridescens***

biology 1226

Carduaceae, Germany 8986

*Cirsium*, Germany 1226

parasitoids 1226

***Agapeta zoegana***

biology, oviposition 4353

*Centaurea maculosa* 1755

plant extracts, effects 4353

***Agaricus bisporus* (see Mushrooms)*****Agathis annulipes***

apples, orchards, Pennsylvania 11846

hosts, *Platynota idaeusalis* 11846

***Agathis cincta***

apples, orchards, Pennsylvania 11846

hosts, *Platynota idaeusalis* 11846

***Agathis mediator* group, taxonomy 2842*****Agave americana*, extracts, molluscicidal**

properties 801

***Agelaius phoeniceus***

insecticides, residues 10655

pesticides, consumption 11645

prey, *Danaus gilippus* 4025

***Agelena limbata***

biology 2110

behaviour 3028

genetics, chromosomes 2967

Japan 3028

ornamental woody plants, Japan 2110

***Agelenopsis aperta*, biology, behaviour 3970*****Ageneotettix deorum***

biochemistry, nutrition 8144

biology, behaviour 4080, 5448, 7719

control

chemical control 5261

trapping 5446

ecology, interspecific competition 3689

fatty acids, attractants 5446

grasslands, Arizona 5261

*Melanoplus sanguinipes*, interactions  
3689

Montana 4080

plant extracts, antifeedants 7719

rangelands, Wyoming 5446, 5448

wild plants, Alaska 3689

***Ageniaspis citricola***

hosts, *Phyllocnistis citrella* 10135

morphology, males 10135

***Ageniaspis fuscicollis***

hedges, UK 6748

hosts, *Yponomeuta padellus* 6748

***Ageratina adenophora***

control, biological control 822

insecticides, effects 822

natural enemies

galls 8987

South Africa 8987

***Ageratum conyzoides***

habitats

beneficial arthropods, Guangdong 668

***Ageratum conyzoides* cont.**

habitats cont.

predatory mites, Hunan 9889

***Ageratum houstonianum***

*Bemisia tabaci* 3988

*Pareuchaetes pseudoinulata* 2216

**Aggregation pheromones**

Acari 98

*Biprorulus bibax* 9655

*Carpophilus* 7822

*Carpophilus davidsoni* 7060

*Cucujidae* 7317

*Doclostaurus maroccanus* 6148

inhibitors, Scolytidae 11976

insects 5380

*Ips* 1698

*Ips typographus* 8920

*Maladera matrida* 4634

Nitidulidae 1546, 6674

*Oryctes monoceros* 4371

*Rhynchophorus* 4376

*Rhynchophorus cruentatus* 4362

*Rhynchophorus palmarum* 682

*Rhynchophorus phoenicis* 4622, 7627,  
9916

*Schistocerca gregaria* 3836, 5122

*Sitona lineatus* 4473

*Tribolium* 519

*Trogoderma inclusum* 6290

***Agistemus exsertus***

biology, environmental factors 3221

prey

arthropods 8241

*Panonychus ulmi* 3221

***Aglaope*, distribution, Spain 3107*****Agonopterix alstroemeriana***

*Conium maculatum*, Illinois 4783

distribution, Illinois 4783

***Agonopterix ulicetella***

control, *Ulex europaeus*, evaluation

11013

food plants 11013

***Agonoscelis rutila*, parasitoids 7156*****Agonosцена targionii***

genetics, karyotypes 7126

*Pistacia terebinthus*

damage 8938

Spain 8938

Spain 7126

***Agonoxenidae***

ecology, interspecific competition 7813

Rosaceae, Michigan 7813

***Agonum*, taxonomy 32*****Agonum chalcomus***

ecology, distribution 5447

fodder crops, fields, Honshu 5447

***Agonum dorsale***

biology, behaviour 6181

insecticides, effects 7660

prey, invertebrates 6181

***Agonum ferruginosum***

biology, behaviour 5072

ecology 5072

marshes, Alberta 5072

***Agonum fuliginosum*, peatlands, UK 8289*****Agonum lutulentum***

ecology 5072

marshes, Alberta 5072

***Agonum muelleri***

biology, behaviour 9678

monitoring, traps 5533

raspberries, fields, Quebec 5533

wheat, fields, Switzerland 9678

***Agonum nigriceps***

biology, behaviour 5072

ecology 5072

marshes, Alberta 5072

***Agonum punctiformum***

apples, orchards, California 4558, 11851

insecticides, effects 11851

prey, *Cydia pomonella* 4558

***Agonum thoreyi***

biology, behaviour 5072

ecology 5072

marshes, Alberta 5072

peatlands, UK 8289

***Agraulis vanilla maculosa*, passion fruits,**

Pernambuco 1578

***Agraulis vanillae***

alkaloids, effects 431

biology, behaviour 12058

***Agraulis vanillae* cont.**

*Lantana camara* 12058

***Agria mamillata***

hedges, UK 6748

prey, *Yponomeuta padellus* 6748

**Agricultural chemicals**

books 875

effects, soil, books 3734

evaporation, measurement 7519

markets, Russia 414-415

usage, Germany 3317

**Agricultural entomology**

books 2827

Spain, conferences 10061

**Agricultural products**

insecticides, residues 4789

pesticides, residues 4807

**Agricultural sciences, books 10075****Agriculture**

Asia, reports 861

effects, Carabidae 1228

USA, reports 9024

**Agridon, control, Pyralidae, sugarcane 3588*****Agrilus***

*Acacia*, Sudan 6776

taxonomy 11133

***Agrilus ater***

biology 5089

distribution, Italy 5089

morphology 5089

***Agrilus cupes*, distribution, China 11133*****Agrilus hastulifer***

biology 5089

distribution, Italy 5089

morphology 5089

***Agrilus leucostictus***

ecology, population dynamics 5716

*Gutierrezia*, Argentina 5716

***Agrilus mali***

apples, Russia 11859

biology 11859

***Agrilus marginicollis*, distribution, China**

11133

***Agrilus pannonicus***

*Quercus*

damage 8872

Germany 8872

***Agrilus planipennis*, distribution, Taiwan**

11133

***Agrilus sexsignatus***

control 2658

*Eucalyptus deglupta*

damage 2658

Philippines 2658

***Agrilus viridis*, hazelnuts 9907*****Agriemek*, control, *Phyllocnistis citrella*, *Citrus* 11897*****Agriocnemus pygmaea***

prey, *Sogatella furcifera* 8664

rice, fields, Philippines 8664

***Agriotes***

control, chemical control 1442, 4414,

10907, 11953

maize

France 1415, 1442

Germany 4414

monitoring, traps 1415

sugarbeet

Germany 10907

Italy 11953

***Agriotes lineatus***

control, chemical control 11954

sugarbeet, Netherlands 11954

***Agriotes obscurus***

potatoes

resistance 6561

Sweden 6561

***Agriotes sputator***

ecology, population dynamics 4771

meadows, Switzerland 4771

pathogens 4771

***Agriotes tauricus*, pheromones 521*****Agriotes ustulatus***

biology, colour 9284

Europe 9284

***Agrius cingulatus***



- Agrius convolvuli** *cont.*  
 biology *cont.*  
   life cycle 10150  
 physiology 9154  
   hormones 10149  
 sweet potatoes  
   damage 11801  
   Southern Africa 11801
- Agrobacterium tumefaciens**, vectors, *Bemisia tabaci* 7792
- Agromyza**, parasitoids 8090
- Agromyza albipennis**, parasitoids 4841
- Agromyza nigrella**  
 biology 2412  
 wheat, Italy 2412
- Agromyza parvicornis**, distribution, Dominican Republic 251
- Agromyzidae**  
 control, biological control 2212  
 distribution  
   Belgium 2025  
   Dominican Republic 251  
   Lithuania 1153  
 ecology, population dynamics 8687  
 Fabaceae, Nigeria 8687  
 Japan 4841, 8075  
 lettuces, Europe 10812  
 parasitoids 4841  
 plants, UK 2397
- Agropyron**  
 Miridae, North America 10745  
*Tridiscus oetvoesi*, British Columbia 920
- Agropyron cristatum**, *Poanes melane* 5402
- Agropyron michnoi**  
*Chorthippus dubius*  
 Nei Menggu 8675  
 yield losses 8675
- Agropyron repens** (see *Elymus repens*)
- Agrostis capillaris**, Gastropoda, UK 11009
- Agrostis palustris**, *Poanes melane* 5402
- Agrostis stolonifera**, habitats, predatory arthropods, UK 9380
- Agrostis tenuis** (see *Agrostis capillaris*)
- Agrostis vulgaris** (see *Agrostis capillaris*)
- Agrotis**  
 control, integrated control 12035  
*Lotus*, China 12035  
 pheromones 518  
 potatoes, Costa Rica 601
- Agrotis biconica**  
 natural enemies 4635  
 rearing techniques 4635  
*Ricinus communis* 4635
- Agrotis ipsilon**  
 biochemistry  
   carbohydrates 11174  
   lipids 11174  
 biology  
   behaviour 5054, 6084  
   environmental factors 5070  
 chickpeas, Uttar Pradesh 3500  
 Chile 9269  
 control 11765  
   chemical control 2398, 3500  
 diets 4056  
 ecology 6084  
 Europe 6084  
 food plants 4056  
 genetics, gene flow 6084  
 Himachal Pradesh 2398  
 Hunan 3254  
 kairomones, attractants, *Meteorus rubens* 11432  
 maize  
   damage 550  
   Mexico 550  
   Pakistan 553, 1437  
   varietal susceptibility 553  
 monitoring, traps 6084, 9269  
 parasitoids 315, 11432  
 pathogens 3254  
 pheromones 5070  
 physiology, hormones 8142  
 rearing techniques 4056  
 soyabeans, Egypt 11765  
 tomatoes, Jammu and Kashmir 6601  
 USA 5070
- Agrotis putris** (see *Axyia putris*)
- Agrotis repleta**  
 control, chemical control 7675  
 maize, Venezuela 7675
- Agrotis segetum**  
 asparagus, South Africa 5502  
 beetroots, UK 6457  
 biochemistry, enzymes 3816  
 control  
   biological control 6457  
   mating disruption 9537  
 diets 7202  
 ecology, population dynamics 5442  
 groundnuts  
   damage 4632  
   South Africa 4632  
 growth regulators, effects 6395  
 heavy metals, effects 10503  
 Hunan 3254  
 maize, Spain 6457  
 Moldova 9417  
 parasitoids 315, 9417, 11454  
 pathogens 3254, 7430, 11521  
 pheromones 2050, 9657, 11694  
 physiology  
   haemocytes 10198  
   nervous system 5834  
   pheromones, derivatives 524  
 rice, West Bengal 5442  
 sugarbeet, Sweden 9657  
 Sweden 9537
- Agrotis spinifera** (see *A. biconica*)
- Agrotis subterranea** (see *Feltia subterranea*)
- Agrotis ypsilon** (see *Agrotis ipsilon*)
- Agrypninae**, morphology, reproductive organs 7007
- Agrypnus**  
 India 6952  
 Japan 6289  
 monitoring, traps 6289  
 taxonomy 6952
- Agrypon flaveolatum**  
 Czech Republic 2107  
 heavy metals, effects 2107  
 hosts, *Operophtera brumata* 2107
- Ahasverus**, taxonomy 30
- Ahasverus advena**  
 cereal grains, South Carolina 4809  
 ecology, population dynamics 6871  
 monitoring 4808  
 taxonomy 30  
 wheat, commodities, Kansas 4808, 6871
- Ailanthus**  
*Atteva fabriaciella*, India 2673  
 forests, beneficial insects, India 2673
- Ailanthus altissima**, Sphecidae, Spain 10002
- Ailanthus excelsa**  
 extracts  
   antifeedants, *Spilarctia obliqua* 8606  
   effects, *Dysdercus koenigii* 11002
- Aiolocaria hexaspilota**  
 biology, behaviour 3196  
 prey, *Gastrolina depressa* 3196
- Aiolopus thalassinus**  
 cereals 3422  
 diets 3314  
 growth regulators, effects 3422  
 heavy metals, effects 3314  
 pheromones 4961  
 physiology, reproduction 4961
- Aiolopus thalassinus tamulus**  
 biology 5409  
 cereals, Gujarat 5409
- Air**  
 growth regulators, residues 4331  
 insecticides, residues 2047, 4342, 8578  
 organochlorine compounds, residues 3390  
 pesticides, residues 8582, 8592, 10636  
 pollutants, effects 3391
- Air pollution**  
 effects  
   *Eriocrania* 8867  
   *Formica* 8868  
   *Lymantria dispar* 8866
- Ajania fruticulosa**, extracts, repellents, insects 6402
- Ajuga**, invertebrates, Hungary 10998
- Ajuga nipponensis**, extracts, effects, *Plutella xylostella* 6394
- Akebia quinata**, extracts, antifeedants, Lepidoptera 11700
- Alabama argillacea**  
 control, chemical control 3621  
 cotton  
   Brazil 1629
- Alabama argillacea cont.**  
 cotton *cont.*  
   Parana 3621
- Alanycarb**, control, arthropod pests, strawberries 11868
- Alarm pheromones**  
*Azeca trigona* 213  
*Frankliniella occidentalis* 212  
*Leptoglossus zonatus* 557  
*Metarhizium anisopliae*, effects 1393  
*Myzus persicae* 11143  
*Nezara viridula* 1393  
*Vespa* 10172
- Alaskozetes antarcticus**  
 Antarctica 141  
 biochemistry, lipids 141  
 lipids, determination 141
- Alauda arvensis**, insecticides, effects 7564
- Albania**, *Laurus nobilis*, *Lauritrioza alacris* 6809
- Albisia**, *Acizzia uncatoides*, California 8943
- Albizia lebbek**  
 extracts, effects, *Rhyzopertha dominica* 1769  
*Ferrisia virgata*, Nigeria 8848  
 insect pests, Tamil Nadu 5779-5780
- Alcaeorrhynchus grandis**  
 distribution, Mexico 1847  
*Eucalyptus*, forests, Brazil 1661  
 prey, Lepidoptera 1661  
 taxonomy 1847
- Alcides**, soyabeans, Nepal 10766
- Alcidodes sauteri**  
 biology, life cycle 3655  
 control, chemical control 3655  
*Zanthoxylum*, Sichuan 3655
- Alcis repandata**  
 morphology, melanism 2876  
 UK 2876
- Alcohols**, effects, *Lygus lineolaris* 7517
- Alcaterogystia cadambae** (see *Cossus cadambae*)
- Aldehydes**, effects, *Lygus lineolaris* 7517
- Alders** (see *Alnus*)
- Aldicarb**  
 biodegradation, soil 9637  
 control  
   Aphididae  
     radishes 6569  
     sugarbeet 698  
 arthropod pests, soil 3395  
*Helicoverpa armigera*, cowpeas 9767  
 insect pests, potatoes 8711  
*Leptinotarsa decemlineata*, potatoes 7757  
*Maladera*, wheat 9673  
 degradation  
   soil 498, 3399  
   soil bacteria 10656  
 determination 10507  
 water 4069  
 effects  
   *Ageratina adenophora* 822  
   *Peromyscus maniculatus* 3375  
   potatoes 599  
   rats 7590  
   rodents 496  
 movement, soil 504  
 nontarget effects  
   *Perillus bioculatus* 9775  
   soil 11659  
   soil fauna 3395  
 residues  
   determination 4805, 5734  
   foods 9604  
   groundwater 4343  
   oranges, commodities 5734  
   potatoes 8711  
 resistance  
   *Aphis gossypii* 10550  
   *Myzus nicotianae* 4647  
 toxicity  
   *Metarhizium anisopliae* 2307  
   *Theba pisana* 435
- Aldicarb sulfone** (see *Aldoxycarb*)
- Aldoxycarb**  
 degradation, soil 11676  
 toxicity, *Theba pisana* 435
- Aldrin**  
 control  
   *Agrotis ipsilon*, chickpeas 3500



**Aldrin** *cont.*control *cont.*

- insect pests, sugarcane 11951
- Isoptera, wheat 7666
- Maladera, wheat 9673
- Sitona macularius*, peas 2493

## degradation, soil 8593

## effects

- fishes 3342
- soil 5360
- wheat 7666, 8629

## nontarget effects

- mice 11608
- onions 6573
- Rana hexadactyla* 5314

## residues

- aquatic organisms 11647
- birds 10602
- cereals, commodities 6882
- determination 4806
- fishes 457, 7579, 11673
- food 4789
- Gadus morhua* 5343
- groundwater 8583
- honey 8572
- analysis 10634
- milk 8517
- Perna viridis* 10606
- pigs 5316
- rivers 4329, 7611
- salt marshes, sediment 4344
- sediment 11673
- sugarcane 11946
- water 2346
- determination 7611

## resistance

- Azotobacter chroococcum* 4278
- Hypothenemus hampei* 5293

**Alebra**

- America 9372
- food plants 9372
- taxonomy 9372

**Alebrasca**, taxonomy, new genus 9048**Alebrasca actinidae**

- kiwifruits, Honshu 9048
- morphology 9048
- taxonomy, new species 9048

**Alectoris rufa**

- insecticides, effects 454
- pesticides
- effects 1341
- mixtures, toxicity 8569

**Aleiodes nolophanae**

- hosts, *Hypena scabra* 3493
- soybeans, fields, Ohio 3493

**Aleiodes stigmator**

- Bromus inermis*, habitats, Indiana 2475
- hosts, *Simyra henrici* 2475
- parasitoids 2475

**Aleochara bilineata**, morphology, sense

- organs 4883

**Aleochara bipustulata**, morphology, sense

- organs 4883

**Aleocharinae**, morphology, genitalia 4877**Aleurites fordii**, insect pests, Pakistan 8850**Aleurocanthus spiniferus**

- ecology, population dynamics 3233
- oranges, Hunan 3233
- parasitoids 3233
- tea, Guangdong 7883

**Aleurocanthus woglumi**

- Citrus*
  - Florida 3554, 11896
  - Texas 4550
- control, chemical control 5557, 7844, 10046, 11894, 11896
- fruits 10046
- mandarins
  - India 7844
  - Madhya Pradesh 11894
  - Maharashtra 5557
- monitoring, geographical information systems 4550

**Aleuroclava**, taxonomy 21**Aleuroclava bilineata**

- food plants, Tamil Nadu 21
- taxonomy, new species 21

**Aleuroclava kanyakumariensis**

- food plants, Tamil Nadu 21
- taxonomy, new species 21

**Aleuroclava louseae**

- food plants, Tamil Nadu 21
- taxonomy, new species 21

**Aleuroclava multituberculata**

- Litsea*, Kerala 21
- taxonomy, new species 21

**Aleuroclava nagercoilensis**

- food plants, Tamil Nadu 21
- taxonomy, new species 21

**Aleuroclava terminaliae**

- taxonomy, new species 21
- Terminalia*, Maharashtra 21

**Aleuroclava vitexae**

- food plants, Tamil Nadu 21
- taxonomy, new species 21

**Aleurodicus dispersus**

- cassava, Nigeria 6568
- food plants 6568

**Aleurodothrips fasciapennis**

- Citrus*, habitats, Florida 5554
- distribution, USA 5554

**Aleurolobus barodensis**

- biology, life cycle 11945
- control 3590
  - chemical control 1613, 11944
  - integrated control 1614
- plant oils, effects 3596
- sugarcane 11945
  - Gujarat 11944
  - India 1615, 3590
  - Maharashtra 1613
  - Tamil Nadu 1614, 3596

**Aleurothrixus floccosus**

- biology 2581, 11901
- Citrus* 2581
- Israel 3555
- UK 11901

- control, biological control 3555
- distribution, UK 11901
- taxonomy 2581

**Aleurotrachelus cruzi**

- oranges, Rio de Janeiro 4586
- Orthezia praelonga*, biological competition 4586

**Aleurotuba jelinekii**, *Viburnum tinus*, Italy 12027**Aleyrodes proleptella**, morphology, sense

- organs 5832

**Aleyrodidae**

- bacteria, symbionts 4981
- Citrus*, Italy 11903
- control 9026, 10472
  - biological control 10465, 10990, 11812
  - physical control 1274
- cotton, USA 9026
- fruit vegetables, Austria 10465
- genetics
  - DNA 4981
  - nucleotide sequences 160
- greenhouse crops
  - China 10472
  - Mediterranean Region 11447
- insecticides, resistance 9026
- Jordan 11369
- leafy vegetables, America 11812
- Middle East 11708
- Nicaragua 3111
- ornamental plants
  - Austria 10465
  - Germany 10990
- parasitoids 4
- phylogeny 160
- plant pathogens, transmission 7783
- predators 11447
- taxonomy 3737, 7318
- tomatoes, Mexico 7783
- vegetables, France 1274

**Alfalfa** (see Lucerne)**Algae**

- insecticides
  - degradation 4297
  - effects 7584
- pesticides, effects 5351
- Algedonia coctalis**, parasitoids 9094

**Algeria**

- Cataglyphis fortis* 6151
- Chilopoda 9361
- insects 275
- olives
  - Bactrocera oleae* 11932

**Algeria** *cont.*olives *cont.*

- Mytilaspis flava* 2598
- Orthopteroidea 9362
- Quercus ilex*, *Psylliodes ruficolor* 742
- Stipa tenacissima*, arthropods 11759

**Algon**, biochemistry, secretions 4936**Alkaloids**

- antifeedants, *Popillia japonica* 7452
- effects, Acrididae 7719
- repellents, *Pieris brassicae* 3417

**2-Alkoxy-4H-1,3,2-benzoxazaphosphorin-2-thiones**

- synthesis 3333
- toxicity, insect pests 3333

**3-((Alkoxyimino)methylbenzyl) esters**, effects, *Phaedon cochleariae* 11589**Allantonema mirabile**, morphology, integument 10452**Allantonematidae**, hosts, *Drosophila nigrospiracula* 6157**Allelochemicals**

- effects
  - Acrididae 7719
  - Aphididae 3813
  - Atta sexdens* 409

**Allethrin**

- determination 7572
- residues, foods, analytical methods 10331
- resistance, *Heliothis virescens* 8506

**Alliaria petiolata**

- Pieris napi oleracea*, Massachusetts 5717
- Pieris virginienis*, Indiana 5718

**Allitin**, control, insect pests, aubergines 9815**Allium**

- arthropod pests 883
- books 883

**Allium ampeloprasum**

- arthropod pests 883
- books 883

**Allium ascalonicum** (see Shallots)**Allium cepa** (see Onions)**Allium chinense**

- Acaridae 10798
- arthropod pests 883
- books 883

**Allium fistulosum**

- Acrolepia sapporensis*, Korea Republic 5487

*Plutella xylostella*, China 3420*Spodoptera exigua*

- economic thresholds 5496
- Korea Republic 5496

**Allium porrum** (see Leeks)**Allium sativum** (see Garlic)**Allium schoenoprasum** (see Chives)**Allium tricoccum**

- Eupithecia borealis*
- damage 9791
- Quebec 9791

**Allium tuberosum**

- arthropod pests 883
- books 883

**Allium ursinum**

- habitats, *Phygadeuon ursini*, Germany 7263

## Syrphidae, Germany 7263

**Allobaccha nubilipennis**

- biology, life history 8824
- ecology, population dynamics 8824
- prey, *Toxoptera aurantii* 8824
- tea, plantations, India 8824

**Allocasuarina campestris**

- Drepanotermes taminensis* 3636
- Western Australia 7370
- habitats, *Drepanotermes taminensis*, Western Australia 11464

**Allograpta exotica**

- biology 7650
- prey, *Schizaphis graminum* 7650

**Allomyces arbuscula**, insecticides, effects 7591**Allonemobius fasciatus**

- genetics, hybridization 6002
- physiology, reproduction 7090
- USA 6002

**Allonemobius socius**

- biology, development 11342
- genetics, hybridization 6002
- physiology, reproduction 7090
- USA 6002



- Allonychus wuyinicus***, bamboos, Fujian 9050
- Allorhinocoris***  
distribution, China 8089  
taxonomy 8089
- Allorhinocoris flavus***, distribution, Xinjiang 8089
- Allorhogas pyralophagus***  
control, Pyralidae, evaluation 2222  
hosts, insect pests 2222
- Allothrombium***  
prey, Aphididae 11869  
Yugoslavia 11869
- Allothrombium fuliginosum***  
acaricides, effects 11856  
pears, orchards, Italy 11856  
prey, Acari 11856
- Allothrombium pulvinum***  
control, *Aphis gossypii*, cotton 715  
cotton, fields, Jiangsu 715, 1625  
distribution, Iran 9352  
ecology, population dynamics 1625  
habitats, Iran 9352  
hosts  
Aphididae 9352  
*Aphis gossypii* 715, 1625
- Alloxysta brassicae*** (see *A. victrix*)
- Alloxysta brevis***  
biochemistry, secretions 7204  
biology, behaviour 7204  
hosts, *Aphis fabae* 7204  
*Lasius niger*, interactions 7204
- Alloxysta victrix***  
distribution, Korea Republic 7355  
ecology, population dynamics 4506  
fields, habitats, Korea Republic 7355  
hosts  
Aphidius *uzbekistanicus* 1403  
*Aphis glycines* 7355  
*Diaeretiella rapae* 1104  
kale, fields, Minas Gerais 4506  
semiochemicals 1403
- 4-Allylanisole**, inhibitors, aggregation pheromones, Scolytidae 11976
- Almonds** (*Prunus dulcis*)  
*Anarsia lineatella*, Israel 2564  
arthropod pests, California 6700  
*Coleophora semicincta*, France 584  
*Eurytoma amygdali*, Greece 11914  
extracts, effects, *Eurytoma amygdali* 6699  
*Frankliniella occidentalis*  
damage 10857  
Israel 10857  
habitats, *Diloponiss fuerschi*, Iran 674  
Hemiptera, Iran 674  
insects, pollination 677  
*Plodia interpunctella* 10059
- Alnetoidia alneti***  
forest trees, UK 2688  
morphology 2688
- Alnus***, *Salebriopsis albicilla*, Spain 4685
- Alnus cordata***  
*Fenusa dohrnii*  
Italy 8886  
resistance 8886
- Alnus glutinosa***  
*Alnetoidia alneti*, UK 2688  
*Anabolia nervosa* 734  
extracts, metabolism, *Chrysomela lapponica* 1657  
*Fenusa dohrnii*  
Italy 8886  
resistance 8886  
insect pests  
damage 7908  
France 7908  
*Platycampus luridiventris*, Western Europe 5656
- Alnus hirsuta***  
*Curculio morimotoi*, Honshu 12000  
*Pamphilus alnicola*, Hokkaido 5659
- Alnus incana***  
*Galerucella lineola*, resistance 11997  
*Oncopsis tsejensis*, USSR 1840  
*Platycampus luridiventris*, Western Europe 5656
- Alnus matsumurae***, *Heterarthrus alnivorus*, Honshu 731
- Alnus maximowiczii***, *Heterarthrus subflavipes*, Honshu 731
- Alnus nepalensis***  
*Eriophyes*  
damage 1543  
galls 1543  
India 1543
- Alocasia odora***, *Colocasiomyia*, pollination 3194
- Alopecosa helluo***  
genetics, chromosomes 11434  
maize, fields, Virginia 3437  
prey, *Mythimna unipuncta* 3437
- Alophomyia***, taxonomy 1807
- Alosa pseudoharengus***, organochlorine compounds, residues 4307
- Alphitobius diaperinus***  
genetics, DNA 1016  
growth regulators, toxicity 10537  
morphology, reproductive organs 937  
pathogens 2158  
predators 9418
- Alpine fir** (see *Abies lasiocarpa*)
- Alpine grasslands**  
insects, Austria 4452  
Orthoptera, Austria 9739
- Alpinia purpurata***, insect pests 10996
- Alsophila pomataria***  
Malus  
Michigan 2552  
varietal reactions 2552
- Alstroemeria***, *Frankliniella occidentalis*, Italy 3672
- Alsystin** (see Diflufuron)
- Alternaria***, vectors, insect pests 1272
- Alternaria alternata***  
*Polistes olivaceus*, interactions 10291  
toxins  
effects  
*Heliothis virescens* 5459  
plants 5459  
vectors, *Frankliniella occidentalis* 3579
- Alternaria mali***, vectors, apples, arthropod pests 9845
- Alternaria tenuis*** (see *Alternaria alternata*)
- Altica bimarginata***  
biology, behaviour 3645  
ecology, environmental factors 5651  
morphology 3645  
*Salix*, Michigan 5651  
*Salix cordata* 3644-3645, 4702
- Altica foveicollis***, taxonomy 903
- Altica quercetorum***  
*Quercus*  
damage 5646  
Spain 5646
- Altica subplicata*** (see *A. bimarginata*)
- Aluminium phosphide**, control, *Ptilineurus marmoratus*, *Boehmeria tricuspidis* 718
- Alydidae**, Nicaragua 3109
- Alysia***  
hosts, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440  
taxonomy 1843
- Amara***  
biology 10240  
behaviour 4399  
cereals, fields, Switzerland 4399  
cultural methods, effects 4399  
distribution, Moldova 10240  
ecology, population dynamics 4399  
monitoring, traps 4399
- Amara aenea***  
ectoparasites 8364  
Michigan 8364
- Amara chalcites***  
biology, environmental factors 10793  
ecology, population dynamics 5439, 5545  
figs, orchards, Honshu 5545  
Korea Republic 1158  
monitoring, traps 5439  
radishes  
damage 8720, 10793  
Hokkaido 8720  
rice, fields, Honshu 5439
- Amara convexior***  
ecology 1063  
urban areas, Germany 1063
- Amara familiaris***  
biology, behaviour 203  
fields, Belgium 203  
monitoring, traps 5533  
raspberries, fields, Quebec 5533
- Amara plebeja***  
barley, fields, Finland 3203  
biology, behaviour 203  
fields, Belgium 203  
prey, *Rhopalosiphum padi* 3203
- Amara similata***  
biology, behaviour 203  
fields, Belgium 203
- Amaranthaceae**, *Phthorimaea operculella* 4487
- Amaranthus***, control, biological control 11035
- Amaranthus caudatus***, extracts, effects, Aphididae 11564
- Amaranthus hybridus***, *Spodoptera exigua* 4640
- Amaranthus hypochondriacus***, *Hypolixus truncatulus*, Delhi 4517
- Amaranthus retroflexus***, *Lygus lineolaris*, Quebec 4110
- Amata passalis***  
parasitoids 751  
*Santalum album*, Karnataka 751
- Amauris***  
biochemistry, secretions 4937  
Kenya 4937
- Amaurobiidae**, checklists, Uruguay 8321
- Amaurobius***  
Greece 11096  
taxonomy 11096
- Amauromyza maculosa***, distribution, Dominican Republic 251
- Amblycheila***, Colorado 6983
- Amblydromella***  
*Citrus*  
orchards, Southern Africa 1567  
South Africa 1567  
prey, *Scirtothrips aurantii* 1567
- Amblyopone reclinata* group**  
biology, behaviour 7218  
Indonesia 7218
- Amblypetia lutescens***  
cashews, Northern Territory 11921  
parasitoids 790  
predators 11921
- Amblypetia lutescens lutescens***  
biology, behaviour 6693  
ecology, population dynamics 6693  
*Murraya paniculata*, Queensland 790  
pawpaws, Queensland 6693
- Amblyseinae**  
biology  
development 11287  
oviposition 11287
- Amblyseius***  
apples, orchards, Turkey 1537  
biology  
development 11287  
oviposition 11287  
ecology, population dynamics 5513  
Japan 3106  
okras, fields, Bihar 5513  
prey, *Tetranychus ludeni* 5513  
strawberries, greenhouses, Germany 10863  
taxonomy 1537
- Amblyseius aberrans*** (see *Kampimodromus aberrans*)
- Amblyseius aerialis***  
biology, reproduction 5478  
Colombia 5478
- Amblyseius andersoni***  
acaricides, effects 11856  
apples  
orchards  
Germany 5524, 6642  
Italy 11856  
Oregon 4554  
Spain 6650  
biology  
behaviour 3200, 8263  
interspecific competition 4554  
intraspecific competition 9438  
control  
*Panonychus ulmi*, apples 6650  
*Tetranychus urticae*, hops 12049  
ecology, population density 6642  
hops, fields, Oregon 12049  
insecticides, effects 4554  
prey  
Acari 5524, 11856



- Amblyseius andersoni* cont.  
prey cont.  
Tetranychidae 6642  
*Tetranychus urticae* 3200, 8263, 9438  
*Typhlodromus pyri*, biological competition 5524
- Amblyseius anomus*  
biology, reproduction 5478  
Colombia 5478
- Amblyseius anthurii*  
*Anthurium andreanum*, New South Wales 735  
taxonomy, new species 735
- Amblyseius aripo*  
Brazil 2507  
prey, *Mononychellus tanajoa* 2507
- Amblyseius barkeri*  
biology  
behaviour 5156  
development 9144  
reproduction 189  
control  
*Frankliniella occidentalis*, evaluation 8452  
*Polyphagotarsonemus latus*, *Capsicum* 8746  
plant extracts, toxicity 7984  
prey  
Acari 9144  
*Frankliniella occidentalis* 5156  
*Tetranychus urticae* 189, 7984
- Amblyseius californicus* (see *Neoseiulus californicus*)
- Amblyseius carverae*  
*Acacia longifolia*, South Australia 735  
taxonomy, new species 735
- Amblyseius chiapensis*, *Citrus*, orchards, Sao Paulo 8786
- Amblyseius citrifolius*  
*Citrus*, orchards, Sao Paulo 8786  
prey, *Brevipalpus phoenicis* 4595
- Amblyseius cucumeris* (see *Neoseiulus cucumeris*)
- Amblyseius degenerans*, control,  
*Frankliniella occidentalis*, evaluation 8452
- Amblyseius domatorum*  
*Cissus antarctica*, Queensland 735  
taxonomy, new species 735
- Amblyseius dowdi*  
*Cissus antarctica*, Queensland 735  
taxonomy, new species 735
- Amblyseius elinae*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Amblyseius fallacis* (see *Neoseiulus fallacis*)
- Amblyseius finlandicus* (see *Euseius finlandicus*)
- Amblyseius hibisci* (see *Euseius hibisci*)
- Amblyseius idaeus*  
biology, reproduction 5478  
Colombia 5478  
control, *Mononychellus tanajoa* 2511
- Amblyseius judaicus*  
Greece 4858  
taxonomy 4858
- Amblyseius limonicus*  
biology  
feeding 610  
reproduction 5478  
Brazil 2507  
cassava  
habitats  
California 5478  
South America 5478  
secretions 610  
control, *Frankliniella occidentalis*, evaluation 8452  
prey, *Mononychellus tanajoa* 610, 2507
- Amblyseius limonicus* group, taxonomy 4833
- Amblyseius longispinosus* (see *Neoseiulus longispinosus*)
- Amblyseius manihoti*  
cassava, Brazil 4833  
taxonomy, new species 4833
- Amblyseius meridionalis*  
Greece 4858  
taxonomy 4858
- Amblyseius multidentatus*  
ecology, population dynamics 5513  
okras, fields, Bihar 5513  
prey, *Tetranychus ludeni* 5513
- Amblyseius nicholsi*, prey, *Eotetranychus kankitus* 8376
- Amblyseius potentillae*  
apples, orchards, Poland 5519  
insecticides, effects 5519
- Amblyseius rademacheri*  
distribution  
Korea Republic 2036  
Slovakia 7279  
morphology 2036
- Amblyseius rapax*, biology, reproduction 5478
- Amblyseius reductus*, rearing techniques 4121
- Amblyseius scutalis* (see *Euseius scutalis*)
- Amblyseius tenuiscutus*, biology, reproduction 5478
- Amblyseius tetranychivorus*  
ecology, population dynamics 5513  
okras, fields, Bihar 5513  
prey, *Tetranychus ludeni* 5513
- Amblyseius tularensis* (see *Euseius tularensis*)
- Amblyseius tutsi*  
*Citrus*, orchards, Southern Africa 1567  
distribution, Zimbabwe 1567  
prey, *Scirtothrips aurantii* 1567
- Amblyseius villacarmelensis*  
cassava, Colombia 4833  
taxonomy, new species 4833
- Amblyseius waltersi*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Amblyseius womersleyi* (see *Neoseiulus longispinosus*)
- Amblyseius grex*  
maize 7684  
plant pathogens, transmission 7684
- Ambrosia*, control, biological control 2763
- Ambrosia acanthicarpa*, *Euaresita stigmatica*, California 12059
- Ambrosia artemisiifolia*  
control, biological control 5255  
natural enemies, Russia 5255
- Ophraella* 1956  
*Ophraella notulata* 1007
- Ambrosia ilicifolia*, *Euaresita stigmatica*, California 12059
- Ambrosia maritima*, extracts, molluscicidal properties 7980
- Ambrosia polystachya*, *Euaresita regularis*, Sao Paulo 9
- Ambrosiella*, interactions, Scolytidae 9977
- Ambystoma maculatum*, insecticides, effects 10615
- America**  
*Alebra* 9372  
*Apterygothrips* 9099  
*Brachista* 4839  
*Calomacraspis* 2850  
*Drosophila melanogaster* 1932  
*Drosophila repleta* group 11279  
*Drosophila subobscura* 8223  
*Ficus*, *Ceratopus* 9117  
food plants, *Occidryas editha* 11140  
hazelnuts, arthropod pests 9907  
leafy vegetables, insect pests 1812  
*Leucaena leucocephala*, *Heteropsylla cubana* 8884  
*Pheidole* 8354  
potatoes, pests 5764  
*Rutelinae* 2850
- Ametastegia glabrata*  
biology 9853  
raspberries, Victoria 9853
- Ametryn*, effects, *Spodoptera littoralis* 2259
- Amiloride*, effects, *Locusta migratoria* 2932
- Amines**, antifeedants, *Spodoptera littoralis* 2735
- Amino acids**  
attractants, *Erioborus terebrans* 3231  
effects, *Bactrocera cucurbitae* 7029
- Aminocarb**  
detection 11398  
residues  
analytical methods 8345
- Aminocarb** cont.  
residues cont.  
Pinopsida 8345  
soil 8345  
toxicity, Apidae 9600
- 5-Amino-4-nitro-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**, effects, *Acheta domesticus* 3363
- Amita**  
distribution, Taiwan 6987  
taxonomy 6987
- Amitermes**, South Asia 11460
- Amitermes floridensis**  
Florida 6968  
taxonomy 6968
- Amitermes meridionalis**, taxonomy 45, 9079
- Amitraz**  
control  
*Acarapis woodi* 334  
*Bemisia tabaci*  
*Capsicum* 10830  
tomatoes 8742  
*Cacopsylla pyri* 8765  
effects, *Neoseiulus fallacis* 3344  
mixtures  
control  
*Bemisia tabaci*, cotton 4658  
Noctuidae, cotton 11969  
toxicity, *Tetranychus urticae* 7534  
nontarget effects, soil 10647  
residues  
determination 10605  
honey 3394, 9601, 10605  
pears 6651  
toxicity  
Tetranychidae 9590  
*Tetranychus urticae* 7534
- Amitus fuscipennis**  
biology, life cycle 10279  
fields, Colombia 10279  
hosts, *Trialeurodes vaporariorum* 10279
- Amitus longicornis**  
ecology, population dynamics 3233  
hosts, *Aleurocanthus spiniferus* 3233  
morphology 3233  
oranges, orchards, Hunan 3233
- Ammannia baccifera**, *Nanophyes*, India 983
- Amodramus savanarrum**, prey, insects 2020
- Ammonium bicarbonate**, attractants, *Bactrocera oleae* 6710
- Ammonium carbonate**, attractants, *Bactrocera oleae* 6710
- Ammonium sulfate**, attractants, *Bactrocera oleae* 6710
- Ammophila**  
Shandong 10079  
taxonomy 10079
- Ammoxenidae**, old fields, South Africa 7262
- Amomum subulatum**, pest control 3678
- Amorbia cuneana**, pathogens 8424
- Amorphophallus**  
arthropod pests 4483  
commodities, *Pseudococcidae* 4483  
insect pests, reports 2797
- Ampedinae**, morphology, reproductive organs 7007
- Amphi coloradus**  
control, chemical control 5261  
grasslands, Arizona 5261
- Amphibia**  
insecticides  
effects 11626  
residues 9606  
toxicity 6362
- Amphimallon solstitialis**  
grasslands, Germany 2187  
pathogens 2187
- Amphimallon solstitialis** (see *A. solstitialis*)
- Amphipoda**  
growth regulators, toxicity 4313  
insecticides, effects 2350
- Amphipoea**  
Hokkaido 1825  
parasitoids 1825
- Amphipoea fucosa**  
Hokkaido 1825  
parasitoids 1825



- Amphipoea ussuriensis***  
Japan 9063  
parasitoids 9063
- Amphipyra pyramidea***, kiwifruits, Italy 4568
- Amphisbaena alba***, *Atta sexdens*, interactions 7904
- Amphisbaena mitchelli***, *Atta sexdens*, interactions 7904
- Amphitornus coloradus***  
control, trapping 5446  
fatty acids, attractants 5446  
rangelands, Wyoming 5446
- Amphorophora idaei***  
biotypes 7827  
genetics, DNA 7827  
raspberries  
resistance 7827  
UK 7827
- Amplicephalus sonora***, pathogens 4168
- Amplicephalus sonorus***  
maize 7684  
plant pathogens, transmission 4168, 7684
- Amrabiplosis allahabadensis*** (see *Procon-tarinia allahabadensis*)
- Amrasca biguttula***  
biology, behaviour 5515  
okras, resistance 5515  
predators 3214
- Amrasca biguttula biguttula***  
aubergines  
Haryana 7795  
resistance 9817  
Uttar Pradesh 8744  
West Bengal 9817  
biological control agents, evaluation 3716  
biology 3716  
environmental factors 8744  
control, chemical control 5514, 5516,  
6624, 7795  
cotton, India 714, 7894  
ecology  
environmental factors 11339  
population dynamics 714  
food plants, India 3716  
Gujarat 11339  
okras  
Andhra Pradesh 6624  
Gujarat 5516  
Indian Punjab 5514
- Amrasca devastans***  
control, chemical control 1631, 5611,  
7896, 8833  
cotton  
Bangladesh 1635, 3614, 5611, 8833  
Delhi 1631, 7896  
resistance 3614
- Amrineus***, taxonomy, new genus 4624
- Amrineus cocofolius***  
coconuts, Sao Paulo 4624  
taxonomy, new species 4624
- Amsacta albistriga***  
control, biological control 5580  
groundnuts, Tamil Nadu 5580  
pathogens 5580
- Amsacta moorei***  
control, chemical control 9772  
guar, Rajasthan 9772  
pathogens 8442
- Amyleis transitiella***  
almonds, California 6700  
control, integrated control 6700  
walnuts  
California 4608  
damage 4608
- Anabaena***, insecticides, effects 10614
- Anabaena torulosa***, insecticides, effects  
3349
- Anabas testudineus***, insecticides, effects  
5313
- Anabolia nervosa***  
biology, diet 734  
Denmark 734  
food plants 734
- Anacanthotermes***, South Asia 11460
- Anacanthotermes ubachi***, distribution, Arab  
countries 2035
- Anacardium occidentale*** (see Cashews)
- Anacharis*** (see *Elodea*)
- Anacridium aegyptium***  
Algeria 275  
pathogens 7329
- Anacridium aegyptium* cont.**  
predators 275
- Anacridium meanorhodon***, ectoparasites 27
- Anagasta kuehniella*** (see *Ephesia  
kuehniella*)
- Anaglyptus mysticus***  
control 6749  
*Crataegus*, Germany 6749
- Anaglyptus subfasciatus***  
attractants 4372, 6801  
Japan 4372  
pheromones 4368  
Pinopsida, Japan 6801
- Anagrus***  
control, insect pests, rice 9724  
groundnuts, fields, Maharashtra 11938  
hosts, *Aproaerema modicella* 11938  
rice, fields, Colombia 9724
- Anagrus atomus***  
ecology, population dynamics 6666  
hosts, *Empoasca vitis* 6666  
monitoring, traps 6666  
vineyards, Italy 6666
- Anagrus delicatus***  
biology  
behaviour 217, 5175  
models 4092  
ecology, population dynamics 5165  
Florida 247  
hosts  
Fulgoroidea 4092  
*Prokelisia marginata* 217, 247, 5165,  
5175  
salt marshes, Florida 5165
- Anagrus erythroneura***  
hosts, *Erythroneura* 7342  
North America 7342  
taxonomy, new species 7342
- Anagrus flaveolus***  
hosts, *Laodelphax striatella* 10727  
rice, fields, Hokkaido 10727
- Anagyris fusciventris***  
distribution, New Zealand 640  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Anagyris mangicola***  
distribution, Africa 5164  
hosts, *Rastrococcus invadens* 5164
- Anagyris pseudococci***  
biology, behaviour 8739  
hosts, *Planococcus citri* 8739  
parasitoids 8394
- Ananas***, *Metamasius callizona*, Florida 5385
- Ananas comosus*** (see Pineapples)
- Anaphes***  
*Anaphes sordidatus*, interactions 10257  
biology, behaviour 10257  
hosts, *Listronotus oregonensis* 10257
- Anaphes iole***  
biology, behaviour 5537  
control, *Lygus hesperus*, evaluation 5537  
fields, habitats, Quebec 4110  
hosts  
*Lygus hesperus* 4059, 5537  
*Lygus lineolaris* 4110  
insecticides, resistance 3222
- Anaphes nipponicus***  
Hokkaido 7338  
hosts, *Oulema oryzae* 7338
- Anaphes sordidatus***  
*Anaphes*, interactions 10257  
biology, behaviour 10257  
hosts, *Listronotus oregonensis* 10257
- Anaphothrips obscurus***, *Rhododendron*,  
Georgia 1711
- Anaphothrips sudanensis***, rice, Philippines  
11743
- Anarsia achrasella***  
control, chemical control 5563  
ecology, population dynamics 1581, 7857  
parasitoids 7857  
sapodillas  
damage 1581  
Gujarat 5563  
India 7857  
Karnataka 1581
- Anarsia ephippias***, groundnuts, resistance  
689
- Anarsia lineatella***  
biology 1548  
control 11864
- Anarsia lineatella* cont.**  
control cont.  
chemical control 1548, 3539  
monitoring, traps 2564, 5549  
parasitoids 3539  
peaches  
Italy 1548  
Ukraine 11864  
*Prunus*, Israel 2564  
stone fruits, California 3539
- Anas platyrhynchos***  
insecticides  
effects 11612  
residues 7589
- Anas undulata***, insecticides, residues 11610
- Anasa tristis***  
parasitoids 11422  
squashes 11422
- Anastatus***  
hosts  
*Amblypelta lutescens* 790  
*Nisaga simplex* 11745  
*Pseudothrips wayi* 10883  
*Tessaratomia papillosa* 11905  
*Murraya paniculata*, habitats, Queensland  
790  
rice, habitats, Orissa 11745  
subtropical tree fruits, orchards, Guangxi  
11905
- Anastatus albataris***  
biology, behaviour 10372  
hosts, *Lasiocampidae* 10372
- Anastatus kashmirensis***  
biology, environmental factors 3070  
hosts, *Lymantria obfuscata* 3070
- Anastoechus***, taxonomy 8086
- Anastrepha***  
baits 4366  
biology 1544  
reviews 5029  
control, reviews 5029  
ecology, reviews 5029  
Guatemala 4366  
monitoring, traps 7840  
stone fruits, Santa Catarina 1544  
subtropical fruits, Goias 7840  
taxonomy, reviews 5029
- Anastrepha bezzii***  
biology, development 5635  
*Sterculia chicha*, damage 5635
- Anastrepha fraterculus***  
peaches, Brazil 7207  
*Acca sellowiana*, Santa Catarina 4605  
biology 4605  
behaviour 4567, 7207  
environmental factors 4001-4002,  
8278  
control, physical control 4605  
ecology, population dynamics 4598  
guavas, Rio Grande do Sul 4598  
insecticides, toxicity 8457  
kiwifruits, Santa Catarina 7856  
monitoring, traps 4567, 4598, 4605, 5549  
morphology, eggs 3788  
pathogens 4202  
peaches 7207  
Rio Grande do Sul 4567  
physiology, reproduction 7207
- Anastrepha grandis***  
melons, Venezuela 8796  
monitoring, traps 8796
- Anastrepha ludens***  
attractants 4361  
baits 4366  
biology, behaviour 10263  
control, hot air treatment 8024  
grapefruits, commodities 8024  
Guatemala 4366  
hot water treatment, effects 11538  
mangoes, Mexico 2583  
monitoring, traps 2583, 5549  
morphology 11538  
predators 8385  
Texas 8385
- Anastrepha mombinpraeoptans*** (see *A.  
obliqua*)
- Anastrepha obliqua***  
*Averrhoa carambola*, commodities, Sao  
Paulo 10031  
biology, behaviour 5548  
fruits, Costa Rica 5548



- Anastrepha obliqua** *cont.*  
hot water treatment, effects 11538  
mangoes 3788  
Mexico 2583  
monitoring, traps 2583, 5548-5549  
morphology 11538  
eggs 3788  
radiation, effects 1965, 10031  
*Spondias purpurea* 1965
- Anastrepha striata**  
biology, behaviour 5548  
Central America 1250  
fruits, Costa Rica 5548  
monitoring, traps 5548  
pathogens 1250
- Anastrepha suspensa**  
attractants 673  
baits 4364  
biochemistry  
enzymes 3856  
hydrocarbons 2053  
biology 227  
behaviour 3957, 5547, 9659  
carambolas, commodities 2768
- Citrus**  
commodities  
Florida 1779  
resistance 1779  
Florida 1571-1573, 1777, 1780  
control 1780, 2768  
biological control 1778  
heat treatment 1774-1775  
physical control 12084  
quarantine 1777  
sterile insect release 1573, 1776  
trapping 1572
- Eugenia uniflora**, Florida 673  
Florida 4222, 4364  
fruits 5547  
USA 1778  
identification 2053  
irradiation, effects 11285  
monitoring, traps 1572, 4222  
parasitoids, containers 6115  
pawpaws, Florida 11909  
pheromones 5547  
*Pouteria campechiana*, commodities 12084  
tropical fruits, commodities 1775
- Anatis labiculata**  
Maryland 9419  
prey, *Lymantria dispar* 9419
- Anatona stillata**  
*Moringa oleifera*  
damage 2542  
Tamil Nadu 2542
- Anatrytone**, taxonomy 4869
- Anchodemus**, synonyms, of *Listronotus* 11124
- Ancistrocerus**  
hosts, *Choristoneura fumiferana* 8900  
rearing techniques 8900
- Ancistrocerus gazella**  
orchards, New Zealand 5254  
prey, Tortricidae 5254
- Ancistrocladaceae**, extracts, effects, *Spodoptera littoralis* 2249
- Ancistroryncha abdominalis**  
prey, Aphididae 7663  
wheat, fields, Germany 7663
- Andira inermis**, *Cleogonus rubetra*, Costa Rica 11912
- Andorra**, Bibionidae 10309
- Andraca bipunctata**  
Anhui 8244  
biology, life cycle 8244  
control 8244  
insecticides, antifeedants 2616  
parasitoids 11457  
tea 2616
- Andrallus spinidens**  
distribution, Mexico 1847  
taxonomy 1847
- Andrector ruficornis** (*see Cerotoma ruficornis*)
- Andrena agilisissima**, distribution, UK 3120
- Andrena erythronii**, toxicity 9600
- Andrena prostomias**  
Japan 7995  
parasitoids 7995
- Andrenidae**  
Maryland 3004  
microorganisms 3004
- Andricus californicus** var. *fructiformis*, *Quercus*, California 1667
- Andricus grossulariae**  
*Quercus*  
damage 7917  
Romania 7917
- Andricus quercuscalicis**  
genetics, population genetics 1666
- Quercus**  
damage 7917  
Romania 7917  
*Quercus cerris*, Europe 1666
- Andrioplecta pulverula**  
biology, behaviour 11306  
*Quercus acutissima*, Honshu 11306  
*Trichagalma serrata*, interactions 11306
- Andrographis paniculata**  
extracts, effects, *Plutella xylostella* 7985  
insecticidal properties 7985
- Andropogon**  
insect pests 8618  
*Thrips pseudoflavus* 919
- Andropogon gayanus**  
*Acromyrmex landolti*  
Colombia 5454  
damage 5454
- Andropogon hallii**, extracts, antifeedants, Acrididae 7719
- Andropogon scoparius** (*see Schizachyrium scoparium*)
- Anelosimus eximius**  
ecology, habitats 5151  
tropical forests, French Guiana 5151
- Anethol**, mixtures, attractants, *Anomala octiescostata* 2766
- Anethum graveolens**  
*Lygus*, Poland 8963  
pest control 8964
- Anethum sowa**, habitats, insects, Delhi 4101
- Aneugmenus flavipes**  
biochemistry, sterols 8175  
*Pteridium aquilinum*, Maryland 8175
- Aneurolepidium chinense**  
Acrididae, Nei Menggu 8298
- Chorthippus dubius**  
Nei Menggu 8675  
yield losses 8675
- Angelica archangelica**, extracts, attractants, *Ceratitis capitata* 5378
- Angelica atropurpurea**, *Thrips pseudoflavus* 919
- Angelica sylvestris**, extracts, effects, *Cydia pomonella* 9545
- Angelicin**, effects, *Papilio polyxenes* 9158
- Angiozothos rufus**, commodities, insect pests 5746
- Angophora**, *Wingia* group, Australia 6981
- Angulitermes**, South Asia 11460
- Anicetus beneficus**  
biology, behaviour 4933  
hosts, *Ceroplastes ceriferus* 4933
- Anicetus ceroplastis**  
biology, behaviour 4933  
hosts, *Ceroplastes ceriferus* 4933
- Anigraea albomaculata**  
biology 1588  
cashews  
damage 1588  
Kerala 1588  
morphology 1588
- Anigraea ochrobasis**  
cashews, Northern Territory 11921  
predators 11921
- Anilazine**, nontarget effects, insect pests, wheat 2324
- Aniline**, toxicity, analysis 2305
- Animal products**, organochlorine pesticides, residues 2767
- Animals**  
insecticides, effects 90, 458, 2253  
pesticides, toxicity 5318  
skin, insecticides, metabolism 8523  
taxonomy, nomenclature 6939
- Anisaldehyde**, attractants, *Frankliniella occidentalis* 3305
- Anisochrysa**  
biology, oviposition 4627  
olives, orchards, Spain 4627
- Anisodactylus**  
Canada 1799  
morphology 1799  
taxonomy 1799
- Anisodactylus californicus**  
apples, orchards, California 4558, 11851  
insecticides, effects 11851  
prey, *Cydia pomonella* 4558
- Anisodactylus signatus**  
biology  
environmental factors 10793  
migration 1075  
ecology, population dynamics 5545  
figs, orchards, Honshu 5545  
Moldova 1075  
radishes  
damage 8720, 10793  
Hokkaido 8720
- Anisolabis**, predators 5135
- Anisomeles heyneana**  
extracts  
effects, *Spaiohosternum prasiniferum* 8961  
insecticidal properties 8961
- Anisopteromalus**, control, insect pests, cereal grains 2772
- Anisopteromalus calandrae**  
biology 5176  
control  
*Callosobruchus maculatus*, evaluation 5732  
*Sitophilus zeamais*, evaluation 6883  
dog foods, habitats, Puerto Rico 6884  
ecology, functional responses 6186  
hosts  
*Callosobruchus chinensis* 5176  
*Callosobruchus maculatus* 5732  
Coleoptera 10248  
*Lasioderma serricornis* 6884  
*Sitophilus oryzae* 9440  
*Sitophilus zeamais* 6186  
insecticides, resistance 4114, 9440  
morphology 5176
- Anisosticta novedecimpunctata**  
biochemistry, chemical composition 9220  
predators 9220
- Anisota senatoria**  
*Quercus*  
varietal susceptibility 7916  
Virginia 7916
- Ankistrodesmus falcatus**  
insecticides  
effects 10614  
toxicity 8521
- Annectobracon**, taxonomy, new genus 10115
- Annelida**, insecticides, effects 90, 9572
- Annona**  
insect pests  
Dominican Republic 11908  
South America 11908
- Annona cherimola**, arthropod pests 1577
- Annona muricata**  
insect pests  
Amazonas 8794  
Ceara 4599
- Annona reticulata**  
arthropod pests 1577  
extracts  
insecticidal properties 8958  
toxicity, *Tribolium castaneum* 8958
- Annona squamosa**  
arthropod pests 1577  
extracts  
chemical structure 3320-3321  
effects  
*Ceratitis capitata* 5696  
*Poeciloceris pictus* 6147  
toxicity, *Ceratitis capitata* 5697
- Nitidulidae**  
Florida 4601  
pollination 4601
- Annona squamosa** × *Annona cherimola*  
Nitidulidae  
Florida 4601  
pollination 4601
- Annonaceae**, extracts, pesticidal properties 5280
- Annual reports** (*see Reports*)
- Anobiidae**  
attractants 6396  
forest trees, Chile 5629



**Anobiidae** *cont.*  
Hawaii 6396  
wood, USA 11041

**Anoeciinae**  
Brazil 2865  
taxonomy 2865

**Anolis carolinensis**, insecticides, residues 11614

**Anomala**  
control 9858  
strawberries, Chile 9858  
tomatoes, Jammu and Kashmir 6601

**Anomala albopilosa sakishimana**  
biology, behaviour 4935  
monitoring, traps 4935  
pheromones 4935  
sugarcane, Japan 4935

**Anomala cavifrons**  
biology 11711  
cereals, Mexico 11711

**Anomala corpulenta**  
China 7509  
monitoring, traps 7509  
strawberries, Jiangsu 7831

**Anomala cuprea**  
*Bacillus thuringiensis*, toxins, toxicity 4163, 7456  
biology, behaviour 266  
control, biological control 8718  
ecology, population dynamics 611  
insecticides, pathogenicity 7480  
lawns and turf 8718  
monitoring, traps 266  
pathogens 362, 4165, 8718  
pheromones 4935, 10184  
physiology, sense organs 10184  
*Quercus acutissima* 7480  
sweet potatoes  
damage 611  
Honshu 611  
Japan 8718

**Anomala daimiana**, pathogens 362

**Anomala dimidiata**  
control, chemical control 4471  
soyabeans, Uttar Pradesh 4471

**Anomala dubia**  
fruits, Hungary 4546  
pheromones 4546

**Anomala flavipennis**  
biology 11711  
cereals, Mexico 11711

**Anomala foraminosa**  
biology 11711  
cereals, Mexico 11711

**Anomala insitiva**  
biology 11711  
cereals, Mexico 11711

**Anomala junii**, hazelnuts 9907

**Anomala octiescostata**  
biology, behaviour 1891, 2766  
lawns and turf, Honshu 1891  
monitoring, traps 1891, 2766  
pheromones 1891, 4935  
plant extracts, attractants 2766

**Anomala orientalis** (see *Blitopertha orientalis*)

**Anomala schoenfeldti**  
biology, behaviour 4952  
lawns and turf, Honshu 4952  
physiology, muscles 4952

**Anomala vitis**  
fruits, Hungary 4546  
pheromones 4546

**Anomaloniinae**, taxonomy 913

**Anomis flava**  
cotton, Hunan 8832  
parasitoids 8832

**Anoplocnemis curvipes**  
control  
integrated control 8704  
physical control 10882  
cowpeas, Chad 8704  
mangoes, South Africa 10882

**Anoplognathus**  
biology, behaviour 8871  
ecology, population dynamics 8871  
*Eucalyptus*, New South Wales 8871  
monitoring, traps 8871

**Anoplognathus montanus**  
biology, behaviour 8871  
ecology, population dynamics 8871

**Anoplognathus montanus** *cont.*  
*Eucalyptus*, New South Wales 8871  
monitoring, traps 8871

**Anoplolepis custodiens**  
biochemistry, venoms 8135  
woody plants, South Africa 12055

**Anoplolepis steingroeveri**, old fields, South Africa 7262

**Anoplophora malasiaca**  
biology, life cycle 7848  
*Citrus* 7848  
Kyushu 9062  
parasitoids 9062

**Anoplophora versteegii**, *Citrus*, Assam 9884

**Anoplotermes**  
ecology, population dynamics 3476  
rice, Goias 3476

**Anoscopus flavostriatus**  
Czech Republic 5077  
ecology, population dynamics 5077

**Antaeotrica**  
*Eucalyptus cloeziana*  
damage 7913  
Minas Gerais 7913  
parasitoids 7913

**Antarctica**  
Acari 6089, 7266  
arthropods 141

**Anteon ciudadi**, hosts, *Dalbulus quinque-notatus* 11761

**Anthaxia adiyamana**  
*Astragalus*, Turkey 1828  
taxonomy, new species 1828

**Anthaxia sinica**  
*Pinus yunnanensis*, China 1827  
taxonomy, new species 1827

**Anthaxia turcica**  
*Juniperus*, Turkey 1828  
taxonomy, new species 1828

**Anthemideae**, *Apion hookeri* 820

**Anthemis cotula**, *Apion hookeri* 820

**Antheraea assama** (see *A. assamensis*)

**Antheraea assamensis**  
biology  
environmental factors 4017, 10399  
life history 3005

**Antheraea eucalypti** (see *Opodiphthera eucalypti*)

**Antheraea mylitta**  
biochemistry  
enzymes 5872, 9157  
fat body 3242  
gonads 3241  
biology 6214, 8400  
behaviour 9298  
diet 6211  
reproduction 10140  
distribution, Denmark 1152  
ecology, population dynamics 9341  
India 8400  
pathogens 360, 8446, 9488  
physiology 8475, 10160, 10397  
hormones 7050  
metabolism 95  
reproductive organs 345  
*Terminalia arjuna* 6211

**Antheraea paphia** (see *Antheraea mylitta*)

**Antheraea pernyi**  
cell lines 1867  
morphology, sense organs 10122  
physiology, sense organs 10187

**Antheraea polyphemus**  
biochemistry, proteins 991  
distribution, Denmark 1152  
pheromones 991  
physiology  
development 4903  
sense organs 10187

**Antheraea polyphemus polyphemus**  
*Betula papyrifera* 10936  
carbon dioxide enrichment, effects 10936

**Antheraea polyphemus tuxtlasensis**  
Mexico 1805  
taxonomy, new subspecies 1805

**Antheraea proylei**  
morphology, eggs 9252  
physiology 6215

**Antheraea yamamai**  
biology, life cycle 8245  
natural enemies 8245  
physiology 9154

**Antheraea yamamai** *cont.*  
physiology *cont.*  
nervous system 114

*Quercus*  
China 9453  
Heilongjiang 8245

**Anthicidae**  
New Zealand 9058  
Nicaragua 10317  
prey, Lepidoptera 10317  
taxonomy 9058

**Anthicus floralis**  
crops, commodities 9015  
distribution, Greece 9015  
morphology 9015

**Anthio** (see *Formothion*)

**Anthocoridae**  
acaricides, effects 11856  
cotton  
fields  
Beijing 10912  
Kenya 1626  
*Crataegus*, habitats, Germany 6813  
ecology, distribution 6050  
fields, Kenya 6050, 6427  
insecticides, effects 10912  
pears, orchards, Italy 11856  
prey  
*Eupoecilia ambiguella* 5540  
*Helicoverpa armigera* 1626, 6050, 6427, 10912  
*Psylla* 6813  
vineyards, habitats, Germany 5540

**Anthocoris nemoralis**  
acaricides, effects 11856  
control, *Acizzia uncatoides*, ornamental woody plants 8943  
pears, orchards, Italy 11856  
prey, Acari 11856

**Anthocoris nemorum**  
cabbages, fields, France 1505  
ecology 11842  
orchards, Yugoslavia 11842  
prey, Thysanoptera 1505

**Anthomyiidae**  
alpine plants  
Norway 5705  
pollination 5705  
biology, environmental factors 5705

**Anthomyzidae**, taxonomy 1809

**Anthonomus brachyrhinus**  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853

**Anthonomus eugenii**  
*Capsicum annuum*  
Florida 4532  
Puerto Rico 3527  
resistance 4533  
Texas 4533  
control  
chemical control 3527  
cultural control 4533  
monitoring, traps 4532  
morphology, males 10136

**Anthonomus grandis**  
biochemistry  
chemical composition 1918  
enzymes 8423  
biological control agents, evaluation 7897  
biology, life cycle 7888  
cell lines, pathogens 8423  
control 2642  
chemical control 4654, 8831, 9950, 10047  
cultural control 5613  
integrated control 5614  
cotton  
Brazil 6741  
Ceara 4654  
commodities 10047  
Sao Paulo 7886  
Nicaragua 398  
North Carolina 2631  
Paraguay 2624  
Paraiba 2639, 7888  
resistance 717, 2630  
Rio Grande do Norte 717  
Sao Paulo 1628, 5613-5614, 8831, 9950  
Texas 6740  
USA 2642



- Anthonomus grandis* cont.**  
cotton cont.  
yield losses 2631  
distribution  
Brazil 6741  
Paraguay 2624  
ectoparasites 322  
insecticides  
effects 11603  
resistance 398  
monitoring 2642  
traps 2624  
mortality, assessment 2639  
natural enemies 2639  
parasitoids 68, 1628, 1918, 6740  
pathogens 7448  
plant extracts, antifeedants 1404, 6401  
predators 5614
- Anthonomus grandis grandis***  
biology, behaviour 5617  
control, chemical control 8844  
cotton  
North America 9958  
Texas 5617, 8844  
enzymes, toxicity 7514  
insecticides, resistance 9958
- Anthonomus guerrerensis***  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853
- Anthonomus phoradendrae***  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853
- Anthonomus pomorum***  
apples, Poland 5519  
control, chemical control 5519
- Anthonomus rubi***  
control, physical control 7834  
strawberries, Finland 7834
- Anthonomus signatus***  
control 7835  
strawberries, Maine 7835
- Anthoseius caudiglans***  
distribution, Slovakia 7279  
ecology 11875  
grapes, habitats, California 11875
- Anthoseius rhenanus***, rearing techniques 4121
- Anthraquinone***  
phytotoxicity, wheat, seeds 11723  
toxicity, *Deroceras reticulatum* 11723
- Anthraquinones***, antifeedants, *Myrmica sabuleti* 1914
- Anthrax anthrax***, hosts, *Osmia tricornis* 5148
- Anthrenocerus australis***  
growth regulators, effects 6875  
plant extracts, effects 8953  
textiles 8953
- Anthrenus***, parasitoids 8293
- Anthrenus flavipes***  
pheromones 2050  
plant extracts, effects 4792  
wool 4792
- Anthrenus verbasci***  
control, chemical control 5744  
UK 5744
- Anthrribidae***  
checklists, Italy 5088  
*Dicorynia guianensis*  
damage 6771  
French Guiana 6771  
distribution, Italy 5088  
taxonomy 5088  
books 4816
- Anthriscus sylvestris***, *Rumex obtusifolius* 788
- Anthurium andreanum***, *Amblyseius anthurii*, New South Wales 735
- Anthus pratensis***, insecticides, effects 7564
- Anthyllis tetraphylla***, *Coleophora semicinerea*, France 584
- Antibiotics***, effects, *Acyrtosiphon pisum* 11566
- Anticarsia gemmatilis***  
America 5245  
biology 1471  
development 10759  
Brasilia 8419  
Brazil 6227, 6260  
cold resistance 10276
- Anticarsia gemmatilis* cont.**  
control  
biological control 1256, 11767  
chemical control 9750  
food plants 10759  
insecticides, resistance 5245  
Louisiana 10276  
parasitoids 2127  
pathogens 1248, 4144, 4469, 5245, 5251, 6227, 6238, 6260, 7451, 8419, 11767  
predators 3991, 7732  
pupae, collection 6125  
soyabeans 7732  
Brazil 1256  
Georgia 9753  
Louisiana 4469, 11767  
resistance 1471, 2488, 3497, 9753  
USA 9750  
USA 6260
- Antifeedants***  
pest control, reviews 11565  
reviews 8612
- Antigastra catalaunalis***  
biology, environmental factors 6717  
control  
chemical control 6716, 7874, 11942  
physical control 6716  
sesame  
Burkina Faso 8812  
Haryana 6716  
Orissa 7874  
Uttar Pradesh 11942  
varietal susceptibility 8812  
yield losses 6716  
*Sesamum*, Uttar Pradesh 6717
- Antillothrips cingulatus***, rice, Philippines 11743
- Antilochus coquebertii***, biochemistry, glands 2904
- Antistropheus silphii***  
fire, effects 7718  
*Silphium integrifolium*  
galls 7718  
Kansas 7718
- Antitrogon consanguineus***  
biochemistry, enzymes 5879  
pathogens 5585  
sugarcane 5585
- Antitrogon planiceps***, sugarcane, New South Wales 1612
- Antrocephalus hakonensis***  
biology, life cycle 1600  
coconuts, plantations, Kerala 1600  
hosts, *Opisina arenosella* 1600
- Antrocephalus mitys***  
biology, behaviour 218  
hosts, *Coryra cephalonica* 218
- Ants*** (see *Formicidae*)
- Anurogryllus muticus***, biology, behaviour 11323
- Anyphaena californica***  
biology, behaviour 5154  
fields, habitats, North America 5154  
parasitoids 5154
- Anystis wallacei***, prey, *Halotydeus destructor* 11754
- Aonidia lauri***  
biology, life cycle 10005  
control, chemical control 10005  
*Laurus nobilis*, Italy 10005  
parasitoids 10005
- Aonidiella aurantii***  
biochemistry, composition 665  
*Citrus*  
California 665, 4590, 9890  
Guangdong 666  
New South Wales 4847  
Queensland 6680  
South Africa 7815  
control  
biological control 7815  
chemical control 7842  
ecology, population dynamics 6686  
grapefruits, California 8788  
insecticides, resistance 4590, 6680  
kairomones 7628  
morphology 665  
natural enemies 8788  
oranges  
South Africa 7842
- Aonidiella aurantii* cont.**  
oranges cont.  
Spain 6686  
parasitoids 665-666, 6969, 7256, 7628, 9435  
predators 4847, 11435  
resistance 9890
- Aonidiella citrina***  
biology 11899  
*Citrus*  
California 4590, 9890  
Italy 11899  
control  
biological control 11899  
chemical control 11899  
distribution, Italy 11899  
insecticides, resistance 4590  
parasitoids 11899  
resistance 9890
- Aonidiella orientalis***  
biology 3553  
*Citrus*, Iran 3553  
control, integrated control 3553  
natural enemies 3553
- Aonidomytilus albus***  
cassava 4483  
commodities 4483  
control, chemical control 4483
- Aoraia***, taxonomy 8068
- Aoraia scutellaris***  
biology, life history 9861  
control, chemical control 9861  
grapes, Sichuan 9861
- Apamea monoglypha***  
morphology, melanism 2876  
UK 2876
- Apamea ophiogramma***, grasses, North America 5456
- Apamea unanimis***, grasses, Ontario 5456
- Apanteles***  
apples, orchards, Pennsylvania 11846  
fields, Orissa 4660  
hosts  
*Amata passalis* 751  
*Ectropis obliqua* 2119, 8823  
*Helicoverpa armigera* 4660  
*Platynota idaeusalis* 11846  
*Spodoptera depravata* 10008  
*Strigina bifida* 5689  
lawns and turf, habitats, Tianjin 10008  
*Magnolia biloba*, habitats, Zhejiang 5689  
*Santalum album*, habitats, Karnataka 751  
tea, plantations, China 8823  
Zhejiang 2119
- Apanteles anomidis***  
biology, development 8832  
cotton, fields, Hunan 8832  
hosts, *Anomis flava* 8832
- Apanteles arisa***, hosts, *Bucculatrix thoracella* 10952
- Apanteles coffea***, hosts, *Prophantis smaragdina* 3604
- Apanteles conopiae***  
hosts, *Sesia sinigensis* 11992  
*Populus cathayana*, forests, Qinghai 11992
- Apanteles edwardsii***  
apples, orchards, Pennsylvania 11846  
hosts, *Platynota idaeusalis* 11846
- Apanteles fakhruhlajiae***  
hosts, *Pseudohypatopa pulvereae* 5159  
India 5159
- Apanteles flavipes*** (see *Cotesia flavipes*)
- Apanteles fumiferanae***  
*Abies balsamea*, forests, Ontario 7960  
hosts, *Choristoneura fumiferana* 7960
- Apanteles galleriae***, hosts, *Galleria mellonella* 308
- Apanteles glomeratus*** (see *Cotesia glomerata*)
- Apanteles halfordi***  
cabbages, fields, South Africa 8725  
hosts, *Plutella xylostella* 8725
- Apanteles kariyai***  
biochemistry, venoms 1227  
biology, development 10151  
growth regulators, effects 1213  
hosts  
*Mythimna separata* 1213, 6189, 7035, 7098, 9696, 10151  
Noctuidae 171



***Apanteles kariyai* cont.**

- pathogens 171
- plant extracts, attractants 9696
- Apanteles maculitarsis***, taxonomy, to
  - Glyptapanteles* 3751
- Apanteles nepitae***
  - hosts, *Amata passalis* 751
  - Santalum album*, habitats, Karnataka 751
- Apanteles obliqueae***, hosts, *Atrophaneura aristolochiae* 1201
- Apanteles ornigis*** (see *Pholetesor ornigis*)
- Apanteles pallidocinctus***
  - Citrus, orchards, South Africa 1574
  - hosts, *Papilio demodocus* 1574
- Apanteles plutellae*** (see *Cotesia plutellae*)
- Apanteles polychrosidis***
  - apples, orchards, Pennsylvania 11846
  - hosts, *Platynota idaeusalis* 11846
- Apanteles procerae***, taxonomy, synonyms, *Dolichogenidea aethiopica* 3751
- Apanteles subandinus***
  - hosts, *Phthorimaea operculella* 1316
  - insecticides, toxicity 1316
- Apanteles teacherdiae***
  - hosts, *Pseudohypatopa pulvereana* 5159
  - India 5159
- Apanteles kariyai***, physiology, peptides 7098
- Apatermes***
  - ecology, population dynamics 3476
  - rice, Goias 3476
- Apatecticus bracteatus***
  - Chrysomellus*, habitats, Colorado 4465
  - prey, *Trirhabda nitidicollis* 4465
- Apeltastes chiapensis***
  - Mexico 2854
  - taxonomy, new species 2854
- Aphaenogaster fulva***
  - ecology, distribution 4680
  - forests, Connecticut 4680
- Aphaenogaster longiceps***
  - biology, behaviour 3061
  - seeds, interactions 3061
- Aphaenogaster pythia***
  - biology 2605
  - control 2605
  - sugarcane
    - New South Wales 2605
    - resistance 2605
- Aphaereta minutus***
  - biology, behaviour 224, 335, 1092
  - hosts
    - Delia antiqua* 224
    - Diptera 1092
    - Drosophila hydei* 335
    - UK 335
- Aphaereta pallipes***
  - hosts, *Delia antiqua* 301
  - Korea Republic 301
- Aphanamixis polystachya*** (see *Ricino-carpodendron polystachyum*)
- Aphanostigma piri***
  - biology, development 3538
  - pears
    - damage 3538
    - Taiwan 3538
- Aphelinidae**
  - ecology
    - population dynamics 6659
    - sex ratio 7344
  - field crops, habitats, Cape Verde 6659
  - peaches, orchards, Italy 6659
  - taxonomy 7283
- Aphelinoidea**
  - Holarctic Region 5802
  - taxonomy 5802
- Aphelinoidea plutella***, taxonomy 5802
- Aphelinoidea turanica***
  - control, *Circulifer tenellus*, sugarbeet 5802
  - taxonomy, new species 5802
- Aphelinus**
  - Africa 3217
  - biology, environmental factors 2123
  - hosts
    - Aphididae 3217
    - Aphis nerii* 797
    - Diuraphis noxia* 2123
  - Nerium oleander*, Honshu 797
  - Oriental Region 9098
  - taxonomy, new species 9098

***Aphelinus albipodus***

- control, *Diuraphis noxia*, wheat 11725
- distribution, Washington 8368
- hosts, *Diuraphis noxia* 8368
- wheat, fields, Colorado 11725
- Aphelinus asychis***
  - cold storage, effects 4004
  - hosts
    - Diuraphis noxia* 4004, 11717
    - Schizaphis graminum* 563
  - parasitoids 563
  - sorghum, fields, France 563
  - wheat, fields, France 11717
- Aphelinus chaonia***, distribution, Pakistan 9098
- Aphelinus gossypii***
  - hosts, Aphididae 11898
  - taxonomy 11078
- Aphelinus maidis***, distribution, Myanmar 9098
- Aphelinus mali***, hosts, *Eriosoma lanigerum* 4555
- Aphelinus spiraeolae***
  - Guangdong 11078
  - hosts, *Aphis spiraeola* 11078
  - taxonomy, new species 11078
- Aphelinus varipes***
  - biology, environmental factors 2123
  - control
    - Diuraphis noxia* 8637
    - wheat 11725
  - hosts
    - Diuraphis noxia* 2123, 11717
    - Schizaphis graminum* 563
  - parasitoids 563
  - sorghum, fields, France 563
  - wheat
    - fields
      - Colorado 11725
      - France 11717
- Aphidecta oblitterata***
  - distribution, British Columbia 4745
  - prey, *Dreyfusia piceae* 4745
- Aphididae**
  - Africa 2828
  - air pollution, effects 8922
  - apples, Switzerland 1540, 5528
  - asparagus, commodities, New Zealand 6597
  - attractants 1650
  - bacteria, symbionts 4981
  - barley 548
  - beetroots, France 1497
  - biology 2412, 3483, 3556, 5027
    - behaviour 5039, 5567, 7780, 8638
    - models 5037
    - caste 5825
    - dispersal 3928
    - environmental factors 230
    - phenology, models 5109
    - reproduction 5036
    - models 4898
    - terminology 5017
  - books 2828
  - botanical gardens, Honshu 2135
  - Brazil 8079
  - cabbages, New Zealand 6577
  - cereals 5161, 7650
    - Czech Republic 6422
    - Germany 3423, 8625
    - resistance 1878, 3423, 9684
    - UK 3427
  - control 2412, 3509, 6597, 8965, 10767
  - arthropods 1527
  - biological control 10465, 10863, 10990, 11812
  - chemical control 698, 1497, 3429, 4618, 5589, 6569, 8632, 8737, 11953
  - cultural control 6569
  - integrated control 11870
  - physical control 1274, 6419
  - cotton
    - Egypt 1633
    - fields, Jiangsu 715
  - crops
    - Portugal 6419
    - Sweden 1300
    - USA 4393
  - Cucurbitaceae, Taiwan 10837
  - culinary herbs, Florida 6832

**Aphididae cont.**

- distribution 5086
  - Greece 8324
  - Italy 9990
  - Poland 3091
- DNA fingerprinting 7297
- ecology 5027
  - interspecific competition 8893
  - phenology 7758
  - population dynamics 633, 3091, 3429, 6437, 6557, 7260, 7759, 7804, 8625, 8632, 9850
  - analysis 4592
  - books 6914
  - models 5078, 5113
- effects 8638
- fertilizers, effects 6422
- food plants 4510, 8624
  - Sri Lanka 10328
- forecasting 11722
- fruit vegetables, Austria 10465
- fungicides, effects 2324
- galls 1062
- genetics
  - DNA 4981
  - genomes 5994
  - nucleotide sequences 160
  - population genetics 7297
- Gentiana* 10993
- Germany 1650, 5103, 9383
- glucosides, effects 5406
- honeydew 7780
- insecticides, effects 6335, 10691
- kairomones 5168
- leafy vegetables, America 11812
- lettuces 7780
  - secretions, effects 9807
- lucerne, Argentina 3483
- maize, resistance 9709
- marrows, Queensland 1527
- monitoring, traps 622, 1394, 4537, 5103, 5567, 8324
- morphology 2412, 3483, 4888
- mouthparts, staining 788
- mulching, effects 2622
- natural enemies 8365, 8826
- ornamental plants
  - Austria 10465
  - Germany 10990
- parasitoids 1403, 2104, 3217, 4510, 6428, 8366
- parsley, Belgium 8965
- pest resistance 1451
- phylogeny 160, 5825
- physiology, nutrition 1878
- Pinus mugo*, Italy 9990
- Pistacia*
  - galls 8893
  - Israel 5567, 8893
- plant pathogens, transmission 548, 1527, 2412, 3285, 3423, 6262, 6550, 10453, 10767-10768, 10837, 10993, 11801
- plants, UK 2397
- potatoes 6550
  - Croatia 3509
  - Hokkaido 6557
- predators 4393, 5161, 7242, 7663, 8632, 9445, 11869
- prey, *Sisyrta* 3931
- radishes, India 6569
- rape
  - Georgia 4618
  - yield losses 4618
- safflower, Maharashtra 10724
- sampling 9380
- soyabeans 10767
- Brazil 10768
- damage 10754
- strawberries
  - Germany 10863
  - Italy 11870
  - Yugoslavia 11869
- sugarbeet
  - Belgium 698
  - Czech Republic 5589
  - Italy 11953
- sweet potatoes
  - damage 11801
  - Southern Africa 11801
- taxonomy 2828, 3483, 3737, 8079



**Aphididae cont.**

- tobacco, Taiwan 2622
- tomatoes
  - Egypt 633, 8737
  - varietal reactions 633
- UK 1062, 1394, 5109
- vegetables
  - fields, Denmark 622
  - France 1274
  - weeds, Switzerland 2759
- wheat
  - Germany 2324, 8632, 8638
  - Poland 3429
  - UK 4409, 10691

**Aphidiidae (see Aphidiinae; Braconidae)**

- hosts, Aphididae 10703
- oats, fields, Poland 10703

**Aphidiinae, parasitoids 11425****Aphidius**

- distribution, Washington 8368
- hosts, *Diuraphis noxia* 8368

**Aphidius avenae (see A. picipes)****Aphidius cingulatus**

- fields, habitats, Korea Republic 7355
- hosts, *Aphis glycines* 7355
- hyperparasitoids 7355

**Aphidius colemani**

- Australia 7489
- biology 6428
  - host preferences 8366
- Colocasia esculenta*, habitats, Tonga 7489

**control**

- Aphis gossypii*, evaluation 9826
- Diuraphis noxia*, wheat 11725
- Pentalonia nigronervosa* 7489

- distribution, Washington 8368
- ecology, population dynamics 8639
- Formicidae, interactions 7489

**hosts**

- Aphididae 6428, 8366
- Aphis gossypii* 7489, 11836
- Diuraphis noxia* 8368
- Rhopalosiphum padi* 8639

**New South Wales 8639**

- pheromones 4401
- prey, Aphididae 542
- Reunion 8366
- wheat
  - fields
    - Colorado 4401, 11725
    - South Africa 542

**Aphidius ervi**

- biology, behaviour 205
- British Columbia 8266
- ecology 585
- genetics, genes 9237

**hosts**

- Acyrtosiphon pisum* 585, 8266
- Aphididae 205
- Schizaphis graminum* 563
- lucerne, fields, British Columbia 585
- parasitoids 563, 8266
- sorghum, fields, France 563

**Aphidius funebris**

- biology, behaviour 12060
- hosts, *Uroleucon jaceae* 12060

**Aphidius gifuensis**

- biology 9447
  - development 1876
  - reproduction 2886
- China 9447
- ecology, population dynamics 7759

**hosts**

- Aphididae 7759
- Aphidoidea 9447
- Myzus persicae* 2886

**parasitoids 9447**

- potatoes
  - habitats, Hokkaido 7759
  - Hokkaido 7754
- predators 7754

**Aphidius matricariae**

- biology, environmental factors 4010
- control

- Aphididae, lettuces 11817
- Aphis gossypii*
  - cucumbers 10832
  - evaluation 9826
- Diuraphis noxia*, wheat 11725
- cucumbers, greenhouses, Germany 10832

**Aphidius matricariae cont.**

- distribution, Washington 8368
- ecology, environmental factors 8367
- hosts
  - Aphididae 8367
  - Diuraphis noxia* 4010, 8368, 11717
  - Schizaphis graminum* 563
- parasitoids 563
- sorghum, fields, France 563
- wheat
  - fields
    - Colorado 11725
    - France 11717

**Aphidius microlophii**

- biology, behaviour 205
- hosts, Aphididae 205

**Aphidius nigripes**

- hosts, *Macrosiphum euphorbiae* 6182
- parasitoids 6182

**Aphidius picipes**

- control, *Sitobion avenae*, wheat 9677
- ecology, population dynamics 9677
- hosts, *Schizaphis graminum* 563
- insecticides, effects 11718
- parasitoids 563
- sorghum, fields, France 563
- wheat

**fields**

- Irish Republic 11718
- Shandong 9677

**Aphidius rhopalosiphi**

- biology
  - behaviour 4407
  - development 60
- distribution, Washington 8368
- hosts

- Aphididae 4407
- Diuraphis noxia* 8368
- Metopolophium dirhodum* 4404
- Schizaphis graminum* 563
- Sitobion avenae* 60, 7565

**insecticides**

- effects 7565, 11718
- toxicity 4308

**morphology 60**

- Myzus persicae*, interactions 4407
- parasitoids 563
- sorghum, fields, France 563
- UK 4308
- wheat, fields, Irish Republic 11718

**Aphidius rosae**

- biology, behaviour 4752
- ecology, environmental factors 11452
- hosts, *Sitobion fragariae* 4752
- roses, habitats, Germany 4752

**Aphidius similis**

- ecology, population dynamics 8639
- hosts, *Rhopalosiphum padi* 8639
- New South Wales 8639

**Aphidius smühi**

- biology, behaviour 7343
- hosts, *Acyrtosiphon pisum* 7343

**Aphidius sonchi, control, Hyperomyzus lactucae, evaluation 6269****Aphidius uzbekistanicus**

- hosts
  - Aphididae 1403
  - Schizaphis graminum* 563
- hyperparasitoids 1403
- parasitoids 563
- sorghum, fields, France 563

**Aphidoidea**

- barley, resistance 2417
- British Isles 8108
- carbon dioxide enrichment, effects 10700
- cereals, Germany 9671
- control 9026, 10788
  - biological control 392
  - chemical control 10907
  - integrated control 9936
- cotton
  - resistance 8830
  - USA 9026
- crops, Japan 5813
- distribution, Lithuania 1153
- ecology 3095
  - insect communities 9369
  - population dynamics 10695
- fertilizers, effects 10695
- field crops, Estonia 10695
- freeze drying 10334

**Aphidoidea cont.**

- genetics, chromosomes 3891
- Himachal Pradesh 3891
- horticultural crops 392
- insecticides, resistance 9026
- Italy 2111
- lettuces, Europe 10812
- melons
  - California 11910
  - Costa Rica 10891
- North America 6164
- parasitoids 9447
- plant pathogens
  - transmission 6264, 7783, 9787, 10891, 11910
  - books 8047
- potatoes 9787, 10788
- predators 2111, 3095, 3491, 5813, 6164
- prokaryotes, symbionts 7306
- Ribes*, certification 10862
- Shandong 3097, 9369
- soyabeans, China 3491
- sugarbeet, Germany 10907
- taxonomy 9787
- tea, China 9936
- tillage, effects 9671
- tomatoes, Mexico 7783
- wheat 10700
  - Nei Menggu 3095
  - resistance 5405
  - UK 5410

**Aphidoletes**

- apples, West Virginia 651
- ecology, spatial distribution 651

**Aphidoletes aphidimyza****control**

- Aphididae, lettuces 11817
- Aphis gossypii*, cucumbers 10832
- Aphis pomi*, apples 4553
- cucumbers, greenhouses, Germany 10832
- genetics, DNA 10137
- morphology, reproductive organs 10137
- strawberries, greenhouses, Germany 10863

**Aphids (see Aphidoidea)****Aphis**

- apples, West Virginia 651
- British Isles 8108
- ecology, spatial distribution 651
- Japan 5824
- parasitoids 5398
- taxonomy 6840

**Aphis affinis**

- Mentha arvensis*, Himachal Pradesh 8955
- predators 8955

**Aphis citricola (see A. spiraeicola)****Aphis craccivora**

- biological control agents
  - Bangladesh 8462
  - evaluation 8462, 8701
- biology
  - behaviour 211
  - environmental factors 7727
  - reproduction 3631, 4897
- control
  - chemical control 8705, 9771
  - integrated control 8462, 8704
- cowpeas 7747, 8701, 10777
- Chad 8704
- Egypt 9771
- India 8705
- Nigeria 7746
  - resistance 7746
- Fabaceae, Israel 1723
- food plants, Bihar 7727
- forest trees, Argentina 3631
- Formicidae, interactions 1490
- genetics, chromosomes 8189
- groundnuts
  - Africa 6713
  - damage 6713
  - Karnataka 690
- insecticides, resistance 7543, 7552
- Lablab purpureus* 8189
- Orissa 1490
- monitoring, traps 5463
- natural enemies 1723
- pastures
  - Western Australia 11756
  - yield losses 11756
- Phaseolus vulgaris*, Venezuela 5463



**Aphis craccivora** *cont.*  
plant extracts, effects 807  
plant pathogens, transmission 690, 6713,  
7747, 10725, 10777  
predators 741, 7727, 7746, 8462, 8701,  
11611  
sorghum 10725  
watermelons, Florida 4537

**Aphis euphorbiae**  
*Euphorbia* 935  
morphology 935

**Aphis fabae**  
barley, resistance 9663  
biology 1477  
behaviour 5038, 5460, 7735  
environmental factors 4020  
celery, California 10808  
control, chemical control 2610, 10824  
ecology  
distribution 10808  
population dynamics 7260, 9755  
faba beans 1477, 5460, 7735, 11771  
Belgium 7734  
Germany 1476, 7736  
resistance 9663  
UK 4474  
varietal reactions 1476  
forecasting, expert systems 4474  
Germany 7260  
heavy metals, effects 11771  
honeydew 7204  
insecticides, toxicity 3338  
*Lasius niger*, interactions 7204  
monitoring, traps 7260, 10808  
morphology 9366  
parasitoids 7204, 7343  
*Phaseolus vulgaris*  
Kenya 6541  
Maryland 9755  
pheromones 7081  
physiology, sense organs 6410, 7081  
plant extracts, effects 6410, 7735  
plant pathogens, transmission 2610,  
10824  
predators 267, 741, 5168, 6541, 7734,  
7864, 8256, 11458  
sugarbeet, Europe 2610  
sunflowers, Hungary 7864  
tomatoes, Italy 10824  
UK 8256

**Aphis fabae cirsiacanthoidis**  
food plants, France 1512  
*Lasius niger*, interactions 327  
parasitoids 327

**Aphis fabae fabae**  
Beta, Hokkaido 9366  
distribution, Japan 9366

**Aphis fabae group**, food plants, France  
1512

**Aphis gerardianae**  
*Euphorbia* 935  
morphology 935

**Aphis glycines**  
control, chemical control 3494  
Korea Republic 7355  
parasitoids 7355  
physiology, antennae 8154  
plant extracts, effects 8154  
soyabeans, Shandong 3494

**Aphis gossypii**  
*Alpinia purpurata* 10996  
aubergines  
Andhra Pradesh 9815  
resistance 9817  
Uttar Pradesh 8744  
West Bengal 9817  
biochemistry, enzymes 1320  
biological control agents, evaluation  
4139, 9826  
biology 3556, 7798  
environmental factors 4535, 8744,  
11836  
phenology 2608  
reproduction 3007  
Brassicaceae, Zhejiang 3516  
celery, Italy 3521  
China 8448, 8507  
chrysanthemums  
California 8940  
resistance 8949  
*Citrus* 4587

**Aphis gossypii** *cont.*  
*Citrus* *cont.*  
Florida 4593  
Japan 3556  
*Citrus clementina*, France 4592  
*Colocasia esculenta*, Tonga 7489  
control 7889, 8450, 10996, 11835  
biological control 715, 1525, 8940,  
9821, 10832  
chemical control 2636, 4483, 4650,  
5516, 6624, 9815, 9959-9960,  
10824, 10983, 11821, 11833  
physical control 10836  
cotton 8379, 8840  
Arkansas 11964, 11967  
California 1636  
Cameroon 7889  
Henan 10914  
Jiangsu 715, 1625  
Karnataka 4650  
Louisiana 2625  
Maharashtra 3613  
Mississippi 707, 9960  
resistance 9960  
Shandong 2640  
Sudan 4668  
Texas 9959  
Zambia 2636  
crops 11821  
cucumbers 4518, 4535, 5384, 9826,  
11836  
Germany 10832  
Italy 1525  
Manipur 7798  
*Cucurbita pepo*, Florida 11835  
Cucurbitaceae, Taiwan 10837  
ecology  
phenology 7758  
population density, estimation 6556,  
7748  
population dynamics 2576, 3516,  
7759, 9960, 10288  
economic thresholds 4668  
ectoparasites 715, 1625  
food plants 2401, 4539  
China 3007  
Italy 11833  
Japan 10288  
genetics, chromosomes 7127  
greenhouse crops, California 8450  
*Hibiscus mutabilis*, Honshu 10983  
Honshu 10551  
insecticides  
resistance 1320, 2625, 8507, 10550-  
10552, 10914  
toxicity 2401, 6625, 7541  
marrows  
damage 8747  
Hawaii 8747  
Italy 10836  
melons  
Costa Rica 10891  
France 9821  
Mexico 3532  
resistance 9827  
monitoring, traps 5463  
natural enemies 8448  
nitrogen, effects 4518  
okras 6625  
Andhra Pradesh 6624  
Gujarat 5516  
parasitoids 4593, 5384, 6183, 6428,  
7233, 7489, 7759, 8366-8367,  
11833, 11836, 11898  
pathogens 4139, 7429, 11964, 11967  
pesticides, effects 3613  
*Phaseolus vulgaris*, Venezuela 5463  
physiology, antennae 8154  
plant extracts, effects 8154, 11564  
plant pathogens  
transmission 2608, 3521, 3532, 3556,  
4587, 10787, 10824, 10836-  
10837, 10891  
detection 8342  
potatoes  
Hokkaido 7754, 7758-7759  
Japan 6556, 7748, 9780  
Morocco 10787  
yield losses 9780

**Aphis helianthi**  
celery, Michigan 3520  
insecticides, resistance 3520  
parasitoids 6428  
predators 1218

**Aphis illinoisensis**  
biology 6668  
grapes 6668  
plant pathogens, transmission 6668

**Aphis medicaginis**, predators 5177

**Aphis nerii**  
biology, phenology 2608  
ecology, population dynamics 797  
natural enemies 797  
*Nerium oleander*, Honshu 797  
parasitoids 6428  
plant pathogens, transmission 2608,  
10725  
sorghum 10725  
sugarcane, Queensland 2608

**Aphis oenotherae**, synonyms, *Myzus persicae* 6840

**Aphis parietariae**, pathogens 6228

**Aphis pomi**  
apples  
Germany 8753  
New York 4553  
Switzerland 8760  
Washington 8757  
control 4553  
chemical control 8753  
predators 8760

**Aphis punicae**  
ecology, population dynamics 9903  
pomegranates, Karnataka 9903  
predators 9903

**Aphis sacchari** (see *Melanaphis sacchari*)

**Aphis solitaria**  
synonyms, *A. steviae* 6840  
taxonomy 6840

**Aphis spiraeicola**  
apples  
China 3094  
Washington 8757  
biology 3556  
botanical gardens, Honshu 2135  
*Citrus* 4587  
Florida 4593  
Japan 3556  
*Citrus clementina*, France 4592  
diets 7313  
ecology, arthropod communities 3094  
eggs, collection 7313  
melons, Mexico 3532  
monitoring, traps 5463  
parasitoids 4593, 11078, 11898  
pawpaws, El Salvador 6697  
*Phaseolus vulgaris*, Venezuela 5463  
plant pathogens, transmission 3532,  
3556, 4537, 4587, 6697, 10725  
predators 2135  
rearing techniques 7313  
sorghum 10725  
watermelons, Florida 4537

**Aphis steviae**, synonyms, of *A. solitaria*  
6840

**Aphobetus**, taxonomy 9091

**Aphobetus cultratus**  
hosts, *Eriococcus* 9091  
taxonomy, new species 9091

**Aphobetus paucisetosus**  
hosts, *Eriococcidae* 9091  
taxonomy, new species 9091

**Aphodiidae**  
crops, habitats, South Africa 3087



**Aphodiidae** *cont.*

- ecology
  - biomass, estimation 6023
  - population dynamics 3087
- grasslands, Spain 6023
- pastures, habitats, South Africa 3087

**Aphodius**

- China 6950
- predators 4038
- taxonomy 6950

**Apholate**, effects, *Apion corchori* 6014**Aphrasthobracon flavipennis**

- hosts, *Pseudohypatopa pulverea* 5159
- India 5159

**Aphrodes makarovi**, *Citrus*, Turkey 1566**Aphrophora paguma**

- Japan, *Pinus luchuensis* 6789
- Pinus luchuensis*, Japan 6789
- taxonomy, new species 6789

**Aphrophoridae**

- ecology 4022
- Fabaceae 4022

**Aphthona**, control, *Euphorbia esula* 11032**Aphytis**

- Actinidia*, habitats, Hunan 5543
- Africa 7283
- Australia 7350
- Citrus*, orchards, Italy 11899
- control
  - Diaspididae 7350
  - Citrus* 7815
  - Parlatoria oleae* 7870

- hosts
  - Aonidiella citrina* 11899
  - Aspidiotus destructor* 5543
- Neotropical Region 7282
- Oriental Region 7284
- taxonomy 7284-7286

**Aphytis aberrans**

- hosts, *Selenaspis articulatus* 7283
- taxonomy, new species 7283
- Uganda 7283

**Aphytis aonidiidae**

- hosts, *Aonidia lauri* 10005
- Laurus nobilis*, habitats, Italy 10005

**Aphytis chrysomphali**

- hosts
  - Chrysomphalus aonidium* 3557
  - Diaspididae 7256
- oranges, plantations, Hunan 3557

**Aphytis coheni**, biology, behaviour 7197**Aphytis hispanicus**

- hosts
  - Diaspididae 7256
  - Parlatoria cinerea* 7846
- oranges, orchards, Sao Paulo 7846

**Aphytis holoxanthus**

- hosts, Diaspididae 7256, 7532
- insecticides
  - resistance 7578
  - toxicity 7532

**Aphytis lingnanensis**

- biology, behaviour 7197-7198
- Citrus*, orchards, Guangdong 666
- control, *Unaspis citri*, *Citrus* 7847
- hosts
  - Aonidiella aurantii* 666
  - Diaspididae 6969

- insecticides, resistance 7578

**Aphytis lingnanensis group**, taxonomy 6969**Aphytis melinus**

- biology 9435
- behaviour 665, 3958, 7197-7198, 8269
- models 9303

**Citrus**

- orchards
  - California 3958
  - Guangdong 666
  - Italy 11899
- genetics, population genetics, insecticide resistance 5334

- grapefruits, orchards, California 8788
- hosts
  - Aonidiella aurantii* 665-666, 7628, 8788, 9435
  - Aonidiella citrina* 11899
  - Aspidiotus nerii* 8269
  - Diaspididae 7256

**insecticides**

- residues, effects 11450

**Aphytis melinus** *cont.*

- insecticides *cont.*
  - resistance 5334, 7816
- kairomones 7628
- physiology 9435
- taxonomy 6969

**Aphytis proclia**

- fruits, habitats, Italy 11844
- hosts
  - Lepidosaphes salicina* 2654
  - Pseudaulacaspis pentagona* 11844

**Aphytis roseni**, control, *Selenaspis articulatus* 7488**Aphytis stepanovi**

- hosts, Diaspididae 7285
- taxonomy, new species 7285

**Aphytis vastus**

- hosts, Diaspididae 7283
- Namibia 7283
- taxonomy, new species 7283

**Aphytis yanonensis**, taxonomy 6969**Apidae**

- biology, sexual dimorphism 3026
- parasites 6032
- parasitoids 7995

**Apiomerus**

- Eucalyptus*, forests, Brazil 1661
- prey, Lepidoptera 1661

**Apion**

- biology, life cycle 2669
- control, chemical control 2669
- morphology 2669

**Salix**

- galls 2669
- Shandong 2669

**Apion aculeatum**

- biology
  - behaviour 12062
  - reproduction 12061
- Mimosa pigra* 12061-12062

**Apion amplum**, pigeon peas, Assam 9763**Apion apricans**

- ecology, habitats 4462
- parasitoids 4462
- Trifolium pratense*, Germany 4462

**Apion assimile**

- ecology, habitats 4462
- parasitoids 4462
- Trifolium pratense*, Germany 4462

**Apion clavipes**

- ecology, population dynamics 7742
- pigeon peas, Bihar 7742

**Apion corchori**, chemosterilants, effects 6014**Apion gibbistrostre**, Cardueae, Germany 8986**Apion hookeri**

- control, *Matricaria perforata*, evaluation 820

- distribution, North America 252

- food plants 820

- Matricaria perforata*, Nova Scotia 252

- Palearctic Region 820

**Apion minimum****Salix**

- galls 7924
- UK 7924

**Apion onopordi**, Cardueae, Germany 8986**Apion rostrum**

- Baptisia leucantha*
  - damage 6141
  - Illinois 6141

**Apion semiculus**

- ecology, habitats 4462
- parasitoids 4462
- Trifolium pratense*, Germany 4462

**Apion trifolii**

- ecology, habitats 4462
- parasitoids 4462
- Trifolium pratense*, Germany 4462

**Apion varium** (see *Piezotrachelus varius*)**Apion virens**

- ecology, habitats 4462
- parasitoids 4462
- Trifolium pratense*, Germany 4462

**Apionidae**

- distribution, Moldova 10313
- taxonomy, books 4817

**Aps**, ectoparasites 3234, 11443**Apis andreniformis**, ectoparasites 3790**Apis cerana**

- Asia 11430

**Apis cerana** *cont.*

- control 11430
- ectoparasites 8359, 11430
- Guizhou 10373
- parasitoids 10373

**Apis cerana indica**

- coconuts, plantations, Tamil Nadu 3582
- growth regulators, effects 8570
- Himachal Pradesh 7585
- insecticides
  - resistance 7585
  - toxicity 3348

**Apis florea**, ectoparasites 3790**Apis mellifera**

- Afrocypophlaeaps africana*, phoresy 11288

- Asia 8360, 11430

- biochemistry, chemical composition 5379

- biology, behaviour 4779

- California 7353, 9449

- crops
  - pollination 1198

- Sudan 1198

**Drosophila flavohirta**, interspecific competition 5682

- ectoparasites 296, 334, 1202, 1287, 2108, 2117, 2120, 3798, 3947, 4089, 4096, 4108, 7353, 8359-8360, 8388, 8509, 8571, 9379, 9448-9449, 10376, 10381, 10388, 10605, 11426, 11430, 11448

- essential oils, toxicity 8571

- growth regulators, effects 2300, 8570

- Himachal Pradesh 1202, 7585

- insecticides
  - effects 2299, 6522, 7466
  - poisoning 5315
  - resistance 7585
  - toxicity 474, 3361, 11619

- interactions, *Phymata americana* 4779

- Italy 2108, 2117, 8509

- lucerne, fields, Czech Republic 6522

- natural enemies 4090, 4123, 8399

- Netherlands 7352, 8388

- nuclear polyhedrosis viruses, effects 9441

- Ohio 4108

- parasitoids 304

- pathogens 3291

- pesticides
  - effects 5193, 9616
  - toxicity 1339

- physiology, nervous system 9616

- Poland 10381

- Switzerland 1287

- toxicity 9600

- UK 11426

- USA 8399

- Varroa jacobsoni*, resistance 4096

**Apis mellifera carnica**

- Austria 1221

- ectoparasites 1221, 3225

- pathogens 9514

- USA 9514

**Apis mellifera mellifera**

- ectoparasites 9430

- France 9430

**Apis mellifera scutellata**

- Brazil 9430

- ectoparasites 9430

**Apistan** (see Fluvalinate)**Apium graveolens** (see Celery)**Apium graveolens** var. *rapaceum* (see Celery)**Apocephalus antennatus**

- ecology 4111

- hosts, *Photinus marginellus* 4111

**Apocharips hansonii**

- Costa Rica 9071

- hosts, *Trioxa* 9071

- taxonomy, new species 9071

**Apocheima sinuosaria**, distribution, Korea

- Republic 6094

**Apodemus mormo deserti**, parasitoids 3198**Apoderus tranquebaricus**

- distribution, Bihar 725

- Terminalia arjuna*
  - Bihar 725
  - damage 725

**Apodiphus**, taxonomy 2546**Apodea**

- collections 2853



**Apoidea** *cont.*  
insecticides, toxicity 1362  
parasites, ecology 10377

**Apollo** (see Clofentezine)

**Apollonia barbusana**  
extracts  
effects, insect pests 804  
toxicity, *Drosophila melanogaster* 804  
insecticidal properties 804

**Apomyelois ceratoniae**  
biology  
behaviour 4604  
development 3571  
environmental factors 1580  
carobs, Turkey 1580  
dates 4604  
food plants, Iran 3571  
fruits, Iran 3549  
pistachios, commodities 3571  
radiation, effects 8240

**Aporia crataegi**, biology, flight 1886

**Aposchizomyia**, taxonomy, new genus 3772

**Aposchizomyia acuta**  
Acacia  
galls 3772  
Kenya 3772  
taxonomy, new species 3772

**Apotomis flavifasciana**  
*Carpinus japonica*, Japan 9064  
morphology, genitalia 9064  
taxonomy, from *Olethreutes* 9064

**Appendisetia robiniae**, *Robinia pseudoacacia*, Argentina 3650

**Applaud** (see Buprofezin)

**Apples** (*Malus pumila*)  
Acari  
Germany 5524  
Italy 11856  
Massachusetts 648  
Nova Scotia 9839  
Utah 650  
*Acrionicta rumicis*, Jiangsu 7635  
*Adoxophyes orana*, Honshu 10847  
*Agrilus mali*, Russia 11859  
Aphididae, Switzerland 8760  
*Archips rosanus*, Russia 9828  
*Argyrotaenia ljugiana*, Italy 11853  
arthropod pests 5530, 9845  
China 3094  
Germany 10842  
Italy 7810  
monitoring 6648  
New York 4553, 6648  
plant pathogens, transmission 9845  
Switzerland 1540, 5528  
Tennessee 8751  
Victoria 5517  
Washington 8757  
arthropods, Switzerland 2547  
*Atethmia ambusta*, Bulgaria 11850  
*Callima dushanbella*, Tajikistan 2555  
*Campyloomma verbasci*, British Columbia 6634  
*Carposina sasakii*, China 8755  
*Ceratitidis capitata* 10873  
*Choristoneura rosaceana* 647, 6008  
Cicadellidae, New York 4557  
commodities, insecticides, residues 3710, 4805, 5740, 9001  
*Conotrachelus nenuphar*, Quebec 4549  
Curculionidae, Poland 5519  
*Cydia*, Hungary 10846  
*Cydia molesta* 7801  
Italy 7809  
*Cydia pomonella* 2561, 9545, 9836  
Australia 2549  
California 4558, 11851  
China 9829  
damage 11858  
Germany 4559  
Iowa 9844  
Italy 6646  
Pennsylvania 11849  
South Africa 10841  
Switzerland 8756  
Washington 11858  
*Dasineura mali*, New Zealand 6638  
*Dysaphis plantaginea*  
damage 8762  
Italy 8762

**Apples** *cont.*  
*Edwardsiana crataegi*, New Zealand 6637  
*Enarmonia formosana*, Washington 1547  
*Epiphyas postvittana*, New Zealand 7820  
*Eriosoma lanigerum*  
Australia 6639  
New South Wales 7814  
resistance 10844  
South Africa 8764  
UK 8752  
varietal susceptibility 7814, 8752  
West Virginia 4555, 9835  
yield losses 9835  
*Euseius finlandicus*, Finland 5518  
*Frankliniella occidentalis*, British Columbia 8759  
habitats  
*Allothrombium pulvinum*, Iran 9352  
beneficial insects, New Zealand 640  
*Hoplocampa testudinea*  
damage 6647  
economic thresholds 11855  
Italy 11855  
Quebec 2220  
Switzerland 5529, 6647  
insect pests  
control 1536  
chemical control 2554, 4547  
integrated control 5521  
physical control 4551  
trapping 10851  
damage 2556, 6643, 10853  
Europe 5521  
Germany 8753  
Italy 5525  
Japan 6643  
Massachusetts 9832  
Michigan 7813  
New South Wales 2556  
Russia 2554  
sampling 10840  
Switzerland 1536  
UK 10840  
West Virginia 651  
Yugoslavia 1539  
insecticides  
degradation 6644  
residues 8575, 10588  
retention 2553  
integrated pest management  
Belgium 1534  
Europe 1533  
reviews 5521  
Iowa 9844  
New York 9842  
North America, reviews 6641  
Lepidoptera, California 2551  
*Metcalfa pruinosa*, Italy 11843, 11854  
mites  
fungicides, effects 11848  
Vermont 11848  
orchards  
Acari, Oregon 4554  
*Amblyseius*, Turkey 1537  
*Amblyseius andersoni*  
Italy 11856  
Spain 6650  
beneficial insects, Sichuan 3094  
Carabidae, California 4558, 11851  
*Drosophila*, Wisconsin 9833  
Eulophidae, British Columbia 8758  
insects, California 2551  
invertebrates, Italy 9843  
*Neoseiulus fallacis*, New York 649  
*Oligota fageli*, South Africa 5523  
*Orius sauteri*, China 644  
parasitoids, Pennsylvania 11846  
Phytoseiidae  
Finland 652  
Norway 9831  
Poland 5519  
*Phytoseiulus persimilis*, South Africa 5522  
pollinators, Himachal Pradesh 6645  
predatory arthropods  
China 8754  
Nova Scotia 2558  
South Africa 4548  
Switzerland 8760  
West Virginia 651

**Apples** *cont.*  
orchards *cont.*  
predatory mites  
Germany 5524, 6642  
Nova Scotia 9839, 10850  
Utah 650  
*Stethorus punctum*, Pennsylvania 9838  
*Symptesis marylandensis*, Connecticut 9837  
*Typhlodromus pyri*, New Zealand 6632  
*Panonychus ulmi*  
Beijing 9840  
China 644  
Denmark 2560  
economic thresholds 6633  
Europe 4562  
Himachal Pradesh 1541  
Israel 3537  
Italy 11857  
New York 4561  
New Zealand 6632  
Nova Scotia 2558, 10850  
Ontario 4560  
Portugal 6649  
resistance 2560, 10852  
South Africa 4548  
Spain 6650  
Virginia 6633  
pest control 868, 10851  
Italy 3534  
Ontario 8480  
pesticides, residues 9604  
*Phlyctinus callosus*, South Africa 11852  
*Phtherochroa cranaodes*, Rio Grande do Sul 4076  
*Phyllonorycter*, Missouri 645  
*Phyllonorycter blancardella*  
New York 3535  
Ontario 646  
*Phyllonorycter crataegella*, Connecticut 9837  
*Phyllonorycter malella* 7209  
*Phyllonorycter mespilella*, British Columbia 8758  
*Phyllonorycter ringoniella*  
China 10848, 11847  
Liaoning 9830  
*Pieris brassicae*, UK 4547  
*Platynota idaeusalis* 7819  
damage 11054  
Pennsylvania 6635, 6640, 11846  
*Pseudococcus*, New Zealand 640  
*Rhagoletis pomonella*  
Massachusetts 516, 4556, 6636, 7817, 9841  
Washington 2746  
*Rhopalosiphum insertum*, Japan 9834  
rootstocks, pest resistance 10845  
Tetranychidae, Germany 6642  
*Tetranychus urticae*  
economic thresholds 2550  
Korea Republic 2550, 5526, 7811  
resistance 7812, 7818  
South Africa 5522, 8763  
USA 10717  
*Tetranychus viennensis*  
Anhui 2557  
Beijing 8761  
Tortricidae 5527  
British Columbia 4552  
Europe 2543  
New Zealand 3536, 6628  
Ukraine 2559  
Virginia 10849  
Washington 1538  
*Zeuzera pyrina*, Egypt 2396

**Applied entomology**, history, Australia 8350

**Apricots** (*Prunus armeniaca* and *P. mume*)  
acaricides, residues 8563, 11862  
commodities, acaricides, residues 8563  
*Frankliniella occidentalis*  
damage 10857  
Israel 10857  
integrated pest management, Czech Republic 5532  
*Iphiclidea podalirius*, Italy 1545  
*Macrotoma palmata*, Egypt 8617  
Nitidulidae, New South Wales 1546  
pest control, Italy 7823



***Apriona germari***

- China 902
- control, chemical control 10865
- mulberries, China 10865
- parasitoids 902

***Aproaerema modicella***

- biology 5391
- control, chemical control 3585, 8811
- ecology, environmental factors 11935
- field crops, India 5391
- groundnuts

- Andhra Pradesh 8811

- Maharashtra 11938

- resistance 688

- Tamil Nadu 3585, 11935

- parasitoids 11938

***Aprodes makarovi*, taxonomy 1566*****Aprostocetus***

- Africa 8093
- biology, life cycle 5155
- ecology, population dynamics 5155
- hosts

- Cassida rubiginosa* 7360

- Ceutorhynchus* 10020

- Dasineura gleditchiae* 5155

- Spain 10020

- taxonomy, synonyms, of *Turktichus* 8093

- Virginia 7360

***Aprostocetus diplosidis***

- ecology, population dynamics 1466
- hosts, *Contarinia sorghicola* 1466
- Sorghum halepense*, habitats, Venezuela 1466

***Aprostocetus epicharmus***

- biology, life cycle 5155
- ecology, population dynamics 5155
- hosts, *Dasineura gleditchiae* 5155

***Aprostocetus erynniae* (see *Baryscapus erynniae*)*****Aprostocetus phineus***

- biology, life cycle 5155
- ecology, population dynamics 5155
- hosts, *Dasineura gleditchiae* 5155

***Aprostocetus procerae***

- hosts, *Orseolia oryzivora* 8092
- taxonomy
- from *Tetrastichus procerae* 8092
- synonyms, of *Tetrastichus pachydiplosisae* 8092

***Aprostocetus prolixus***

- hosts, *Apriona germari* 902
- taxonomy, new species 902

***Aprostocetus purpureus***

- Butea monosperma*, habitats, Bihar 11431
- ecology, population dynamics 11431
- hosts, *Kerria lacca* 11431

***Aprostocetus theioneurus***

- hosts, *Cotesia sesamiae* 5425
- maize, fields, Kenya 5425

***Apterorhrips apteris* (see *A. secticornis*)*****Apterorhrips secticornis***

- asparagus, commodities, New Zealand 6597
- biology, reproduction 4775
- control 6597
- Erigeron glaucus*
- California 6842
- interactions 4774-4775

***Apterygothrips***

- America 9099
- taxonomy 9099

***Aptosimum spinescens*, seeds, insects,**

- Namibia 3684

***Aptus mirmicoides***

- prey, *Eupoecilia ambiguella* 4577, 5540
- vineyards
- Germany 4577
- habitats, Germany 5540

***Aquaflow* (see *Quinalphos*)****Aquatic communities, insecticides, effects 7614****Aquatic environment**

- chlorinated hydrocarbons, residues 5363
- insecticides
- degradation 500
- movement 8585
- nontarget effects, assessment 10650
- residues 1379, 8588
- pesticides, residues 5362, 10659
- pollutants, Texas 2353

**Aquatic insects**

- growth regulators, toxicity 4313
- microbial pesticides, effects 8543

**Aquatic invertebrates**

- growth regulators, toxicity 4313
- insecticides, effects 5327, 8542, 8557, 11617

**Aquatic organisms**

- insecticides
- effects 8557
- residues 1379, 8595
- toxicity 4321, 7605
- assessment 10624
- organic compounds, toxicity 2304
- pesticides
- effects 508
- mixtures, toxicity 5319
- nontarget effects 11666
- residues 5352
- pollutants, residues 2353
- wood preservatives, effects 8581

**Aquatic plants, insecticides, movement 8585****Aquatic weeds**

- control, biological control 5724
- natural enemies, Japan 5724

***Aquilegia vulgaris*, *Phytomyza krygeri*, Netherlands 2730****Arab countries**

- Isoptera 2035
- Mantodea 2041
- Meloidae 2042

**Arable farming, pesticides, usage, Netherlands 6346****Arable land, beneficial insects, Germany 1223****Araceae, insecticidal properties 1722****Arachidonic acid, effects, *Locusta migratoria* 5903*****Arachis appresipila***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

***Arachis batizogaea***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

***Arachis hypogaea* (see *Groundnuts*)*****Arachis kemph-mercadoi***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

***Arachis paraguariensis***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

***Arachis stenophylla***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

***Arachis villosa***

- extracts, effects, *Spodoptera litura* 5581
- insecticidal properties 5581
- Spodoptera litura*
- Andhra Pradesh 5581
- resistance 5581

**Arachnida**

- bibliographies 11059-11060
- ecology, population dynamics 7946
- evolution, phylogeny 8096
- Finland 3369
- insecticides, effects 3369
- Nothofagus pumilio*, Chile 5660
- Pinus koraiensis*, Korea Republic 7946

***Aracercus fasciculatus***

- asparagus
- damage 11820
- Karnataka 11820
- biology, environmental factors 6566
- cassava 6566
- commodities 4483, 5743

***Aracercus fasciculatus* cont.**

- cereal grains, South Carolina 4809
- coffee, Nicaragua 9937

***Aralia*, *Thrips konoi* 919*****Aralia elata*, *Acalolepta luxuriosa*, Honshu 10999****Araneae**

- acaricides, effects 11856

**apples****orchards**

- China 8754

- Switzerland 8760

- West Virginia 651

***Artemisia tridentata*, habitats, Utah 4780****attractants 1650****Bahamas 11440****biology**

- behaviour 1101, 2579, 3049, 4408, 4669, 5048, 5626, 7220, 11333

- environmental factors 5160

- feeding behaviour, reviews 6161

- reproduction 10259

- bogs, Germany 10284

- Bromelia hemisphaerica*, Mexico 811

**cereals****fields**

- Germany 1423

- Switzerland 5160

- UK 1422

- Citrus*, orchards, South Africa 2579

**cotton****fields**

- Bangladesh 9947

- Jiangsu 715

- Texas 4669

- cowpeas, fields, Kenya 6417

- crops, fields, USA 4393

- cultural methods, effects 1422

**distribution**

- Lithuania 1153

- Madagascar 3100

- Mexico 8299

- Slovakia 3099

- Switzerland 2033

- ecology 3019, 3078, 8272

- arthropod communities 11403

- colonization 9283

- community ecology 4780

- environmental factors 4676

- habitats 1126, 7245, 8754

- diversity 4021

- population dynamics 3049, 4393, 4468, 5167, 6417, 7759, 11440, 11750, 11929

- spatial distribution 651

- evolution 3781

- fauna, Turkmenistan 10294

- fertilizers, effects 4468

**fields**

- Belgium 3223

- habitats, Delaware 3049

- Sweden 586

- Finland 3369

**forests**

- habitats, Finland 5626

- litter, Panama 4676

**Fujian 8**

- genetics, sex ratio 11238

- Germany 1650

- grasses, habitats, UK 9380

**grasslands**

- Germany 1126

- habitats, Utah 5048

- Montana 581

- Nebraska 2020

**habitats**

- Germany 1101

- Poland 536

- Slovakia 4021

- hedges, Germany 2113

- insecticides, effects 1423, 3369, 9722, 9947

- Liaoning 11365

- low input agriculture, effects 9843

- maize, fields, Virginia 3437

- Massachusetts 3078

- Mexico 5149

- mimicry, reviews 7200

- monitoring, traps 5626, 6126, 10693, 11929



Araneae cont.

morphology  
  cardiovascular system 7010  
  size 5828  
mosses 10630  
nomenclature 12099  
old fields, South Africa 7262  
Panama, books 6922  
parasitoids 8  
pears, orchards, Italy 11856  
pecans, orchards, Israel 5566  
physiology  
  glands 8136  
  reproduction 128  
*Picea*, habitats, Hungary 3019  
*Picea abies*, habitats, Sweden 5152  
*Pinus rigida*, forests, New Jersey 9984  
*Pinus sylvestris*, UK 2696  
*Podocarpus nagi*, forests, Honshu 1706  
potatoes  
  commodities, India 5475  
  habitats, Hokkaido 7759  
predators 2020, 3063, 5149, 8274, 11440  
prey  
  Acrididae 581  
  *Acrionicta rumicis* 7635  
  *Acyrtosiphon pisum* 586  
  *Anastrepha ludens* 8385  
  *Antheraea yamamai* 8245  
  Aphididae 7658, 7759, 8760  
  Hemiptera 9744  
  insect pests 4393  
  insects 11750  
  *Megalurothrips sjostedti* 6417  
  *Monellia caryella* 5566  
  *Mythimna separata* 256  
  *Phratra* 1655  
  *Phthorimaea operculella* 5475  
  *Rhopalosiphum padi* 6181  
  *Sitobion avenae* 4408  
  *Trioxa erytrae* 2579  
rangelands, Wyoming 5446  
rice  
  fields  
    Bangladesh 3462  
    China 11750  
    Colombia 3472, 11742  
    Korea Republic 5437  
    Zhejiang 3466  
  Orissa 9722  
soyabeans  
  fields  
    Florida 4468  
    Ohio 7733  
  sugarcane, plantations, Texas 693  
  tea, plantations, Guangdong 7883  
  *Tenodera sinensis*, interactions 3049  
  UK 7245, 9283  
  weeds, Switzerland 2759  
  wheat  
    fields  
      China 256  
      Finland 10693  
      UK 4408-4409, 5410

**Araneidae**  
  biochemistry, heavy metals 5162  
  biology, behaviour 2579, 6167  
  *Citrus*, orchards, South Africa 2579  
  crops, fields, Maryland 9755  
  ecology, population dynamics 1417, 9755  
  *Eucalyptus*, habitats, Italy 5639  
  Mexico 5149  
  Ohio 5162  
  predators 5149, 9264  
  prey  
    *Atherigona soccata* 1417  
    *Phoracantha semipunctata* 5639  
    *Trioxa erytrae* 2579  
  sewage sludge, effects 5162  
  sorghum, fields, Burkina Faso 1417

**Araneus**  
  ecology, population dynamics 1417  
  prey, *Atherigona soccata* 1417  
  sorghum, fields, Burkina Faso 1417

**Araneus bicentenarius**, genetics, silk, proteins 11247

**Araneus cavaticus**, physiology, secretions 99

**Araneus diadematus**  
  biology, behaviour 199, 201  
  UK 199

**Araneus gemmoides**, biochemistry, silk 4942

**Araschnia levana**, biochemistry, pigments 956

**Araucaria angustifolia**, insect pests, Brazil 3629

**Araucaria cunninghamii** 12080

**Arbutus xalapensis**, *Eucheira socialis*, Mexico 794

**Archanaara dissoluta**  
  ecology, population dynamics 1745  
  *Phragmites australis*, Germany 1745

**Archanaara geminipuncta**  
  ecology, population dynamics 1745  
  *Phragmites australis*  
    Austria 11017  
    galls 1753  
    Germany 1745, 1753  
    weed control, effects 11017

**Archaphidius greenideae**  
  distribution, India 10886  
  guavas, orchards, Uttar Pradesh 10886  
  parasitoids 10886

**Archenomus**  
  dates, habitats, Gujarat 7858  
  hosts, insect pests 7858

**Archiearinae**  
  Europe 6999  
  morphology, pupae 6999

**Archips**  
  control, mating disruption 2543-2544  
  fruits, Europe 2543-2544

**Archips argyropilus**  
  apples, British Columbia 4552  
  *Citrus*, California 8787  
  control, mating disruption 4552  
  trees, USA 11982

**Archips oporanus**, parasitoids 2859

**Archips podanus**  
  apples, Ukraine 2559  
  biology 2559, 7808  
  control 7808  
  pome fruits, Italy 7808

**Archips rosanus**  
  apples  
    British Columbia 4552  
    Ukraine 2559  
  biology 2559  
  environmental factors 9828  
  control 11864  
    biological control 6821  
    mating disruption 4552  
  ecology, population dynamics, models 9828  
  food plants, Russia 9828  
  hazelnuts  
    America 9907  
    Europe 9907  
    North America 4612  
  medicinal plants, Russia 6821  
  peaches, Ukraine 11864

**Archips xylosteanus**  
  apples, Ukraine 2559  
  biology 2559  
  control 11864  
    biological control 6821  
  forests, Spain 10940  
  medicinal plants, Russia 6821  
  peaches, Ukraine 11864  
  predators 10940

**Archontophoenix cunninghamiana**, *Cephenes augiades sperthias*, Victoria 10995

**Archytas marmoratus**, hosts, *Helicoverpa zea* 4418

**Arctia caja**, pyrrolizidine alkaloids, metabolism 4928

**Arctic Regions**, pollutants, conferences 6913

**Arctiidae**  
  *Eucalyptus*, Brazil 1660  
  *Fagus*, Slovakia 3642  
  forests, Minas Gerais 8854  
  pheromones 4928  
  physiology, sense organs 8158

**Arctium lappa**, *Frankliniella occidentalis* 6263

**Arctotheca calendula**  
  Acari  
    damage 11704  
    varietal reactions 11704

**Arcypteridae**, Guangdong 7327

**Ardea heodias**, insecticides, effects 2291

**Ardelea convexa**  
  fields, habitats, Korea Republic 7355  
  hosts, Braconidae 7355

**Arecaceae**  
  books 886  
  *Brassolis sophorae*  
    damage 5683  
    Venezuela 5683  
  pests 886

**Arecastum romanzoffianum**, *Cephenes augiades sperthias*, Victoria 10995

**Arenicola marina**, pesticides, extraction 5317

**Arge**  
  Germany 1826  
  parasitoids 1826

**Arge fuscinervis**  
  *Betula*, Finland 6750  
  ecology, habitats 6750

**Argemone mexicana**  
  control, insect pests, aubergines 9815  
  extracts  
    effects, *Crocidolomia binotalis* 8960  
    insecticidal properties 8960  
  insecticidal properties 6475

**Argentina**  
  Cactaceae, *Drosophila buzzatii* 2947  
  *Carduus acanthoides*, *Rhinocyllus conicus* 6846  
  *Ceratitis capitata* 5374  
  cereals, *Diuraphis noxia* 10493  
  *Diabrotica speciosa*, pathogens 7479  
  *Drosophila buzzatii* 10237  
  *Enterolobium contortisiliquum*,  
    *Lochmaecles sladeni* 7929  
  faba beans, *Liriomyza huidobrensis* 9754  
  field crops, *Systema argentinensis* 182  
  food plants  
    *Dorcadus barbatus* 4689  
    insect pests 7648  
  forest trees  
    *Aphis craccivora* 3631  
    insect pests 2647  
    pollinators 2102  
  Formicidae 1196, 4023  
  *Graphognathus*, pathogens 7478  
  *Gutierrezia*, natural enemies 5716  
  *Jacaranda mimosifolia*, *Phytoliriomyza jacarandae* 10982  
  lucerne, Aphididae 3483  
  *Metopolophium dirhodum* 6016  
  *Neopachytichius squamosus* 5822  
  *Nezara viridula*, parasitoids 3084  
  *Nothofagus antarctica*, *Aditrochus gnirensis* 10935  
  *Nothofagus dombeyi*, *Aditrochus coihuen-sis* 10935  
  *Nothofagus obliqua*, *Espinosa* 10935  
  *Nothofagus pumilio*, *Aditrochus fagicolus* 10935  
  *Parthenium hysterophorus*, *Listronotus setosipennis* 3288  
  pesticides, usage 3298  
  *Phaseolus vulgaris*, *Acrosternum apicicorne* 11773  
  *Pinus*, *Sirex noctilio* 2693  
  potatoes  
    Coleoptera 7750, 10782  
    *Cyclocephala signatocolis* 4484  
    *Rhagothrips piercei* 3508  
  river water, insecticide residues 2346  
  *Robinia pseudoacacia*, *Appendiseta robiniae* 3650  
  *Rosa*, Aphididae 7971  
  *Senna birostris*, *Sennius terani* 5821  
  *Solanum*, Pentatomidae 603  
  sweet potatoes, *Rhyssomatus pilosipes* 9789  
  tea, insect pests 5594  
  *Tribolium castaneum*, insecticide resistance 432  
  Trichogrammatidae 4838  
  *Trimerotropis pallidipennis* 3897  
  wheat, *Bryobia praetiosa* 1424  
  *Zea*, *Dalbulus maidis* 3439

**Argidae**, parasitoids 11106

**Argiope aemula**  
  biology, behaviour 11307  
  Ryukyu Archipelago 11307

**Argiope arcuata**  
  biology, behaviour 274



- Argiope arcuata* cont.  
prey, Aracidae 274
- Argiope argentata*  
biology 4116  
morphology 4116  
Panama 4116  
prey, insect pests 11742  
rice, fields, Colombia 11742
- Argiope aurantia*, biochemistry, enzymes,  
inhibitors 9156
- Argogorytes*  
biology 4852  
New Zealand 4852  
taxonomy 4852
- Argopistes biplagiatus*  
biology  
diapause 4015  
environmental factors 4015
- Argynnis aglaja*, biology, flight 1886
- Argyraea drumalis*, taxonomy, from  
*Petrophila* 4831
- Argyraea subornata*, taxonomy 4831
- Argyresthia illuminatella*  
*Abies alba*, Italy 9996  
biology, life cycle 9996  
parasitoids 9996
- Argyresthia thuiella*, Cupressaceae, Switzer-  
land 10979
- Argyresthia trifasciata*  
Cupressaceae, Switzerland 10979  
distribution, Sweden 10299
- Argyroderon actinophyllum*  
arthropods, Australia 4716  
insect pests  
galls 748  
Queensland 748
- Argyrotaenia citrana*, biology, behaviour  
3987
- Argyrotaenia ljunghiana*  
biology 7808  
behaviour 11853  
control 7808  
economic thresholds 11853  
monitoring, traps 11853  
pheromones 11853  
pome fruits, Italy 7808, 11853
- Argyrotaenia pulchellana* (see *A. ljunghiana*)
- Argyrotaenia velutinana*  
biochemistry, pheromones 2919  
biology, behaviour 11322  
control, mating disruption 6640  
*Leucanthemum vulgare* 11322
- Arianta arbustorum*  
Austria 5202  
biology  
behaviour 3959  
reproduction 955, 3804  
genetics, reproduction 8181  
heavy metals, pollutants 5202  
morphology, reproductive organs 11147  
Switzerland 3959
- Aricia agestis*  
Formicidae, interactions 8427  
pathogens 8427
- Aridius*, taxonomy 9740
- Aridius hemicaratus*  
*Poa flabellata*, Falkland Islands 9740  
taxonomy, new species 9740
- Aridius spathe*  
*Poa flabellata*, Falkland Islands 9740  
taxonomy, new species 9740
- Arilus carinatus*  
*Eucalyptus*, forests, Brazil 1661  
prey, Lepidoptera 1661
- Arion ater*  
biochemistry, secretions 7099  
control, biological control 10810  
heavy metals, effects 965  
pathogens 350  
Portugal 4871, 5204  
taxonomy 4871, 5204
- Arion distinctus*, pathogens 350
- Arion fuliginus*  
Portugal 4871, 5204  
taxonomy 4871, 5204
- Arion hispanicus*  
Portugal 4871  
taxonomy 4871
- Arion intermedius*  
pathogens 350  
Portugal 4871, 5204
- Arion intermedius* cont.  
taxonomy 4871, 5204
- Arion lusitanicus*  
Portugal 4871, 5204  
taxonomy 4871, 5204
- Arion nobrei*  
Portugal 4871, 5204  
taxonomy 4871, 5204
- Arion rufus*  
Portugal 4871  
taxonomy 4871
- Arion silvaticus*, pathogens 350
- Arion subfuscus*  
Spain 11102  
taxonomy 11102
- Arion timidus*  
Portugal 4871  
taxonomy 4871
- Ariophanta bajadera*, pesticides, effects  
6837
- Arisaema serratum*, Sciaridae, Japan 6810
- Aristolobia horridula*  
*Pterocarpus macrocarpus*  
damage 8889  
Thailand 8889
- Aristolochia alba*, extracts, antifeedants,  
*Spodoptera litura* 11697
- Aristolochia baetica*, *Zerynthia rumina*,  
Spain 11292
- Aristolochia bracteata*, *Atrophaneura aris-  
tolochiae*, Andhra Pradesh 6034
- Aristolochia indica*  
*Atrophaneura aristolochiae*  
Andhra Pradesh 6034  
Karnataka 1201
- Aristolochia longa*, *Zerynthia rumina*, Spain  
11292
- Aristolochia macrophylla*  
*Battus philenor*, USA 10010  
extracts, effects, *Battus philenor* 10010
- Arma custos*  
*Populus*, forests, France 6760  
prey, *Chrysomela tremula* 6760
- Armadiillidium*  
ecology, communities 11988  
*Quercus*, Belgium 11988
- Armadiillidium nasatum*  
biology, reproduction 9518  
*Wolbachia*, symbionts 9518
- Armadiillidium vulgare*  
biology, reproduction 75, 9518, 11488  
distribution, Arab countries 2040  
ecology 1089  
grasslands, UK 1089  
*Wolbachia*, symbionts 9518, 11488
- Armeria velutina*, *Cyaniris semiargus*, Spain  
1743, 5052
- Aromatic compounds*, attractants,  
Scarabaeidae 11685
- Aromatic hydrocarbons*, effects, aquatic  
environment 8581
- Arrhenatherum elatius*, *Puto superbus*, Italy  
5449
- Arrhenophagus chionaspis*  
hosts, *Pseudaulacaspis pentagona* 11956  
monitoring, traps 11956  
tea, plantations, Japan 11956
- Arsenic acid*, control, *Anthonomus grandis*,  
cotton 8844
- Arsine*, determination 1182
- Artemia*, insecticides, effects 10586
- Artemia salina*, insecticides, toxicity 4289
- Artemisia*, *Europiella*, Holarctic Region  
11127
- Artemisia absinthium*  
*Coleophora caelebipenella*, Europe 584  
extracts  
effects, *Crociodolomia binotalis* 8960  
insecticidal properties 8960
- Artemisia alba*  
*Coleophora caelebipenella*, Europe 584  
*Coleophora ditella*, Europe 584
- Artemisia campestris*  
*Coleophora ditella*, Europe 584  
*Coleophora solenella*, Spain 584
- Artemisia capillaris*, extracts, antifeedants,  
*Pieris rapae* 3416
- Artemisia frigida*  
*Chorthippus dubius*  
Nei Menggu 8675  
yield losses 8675
- Artemisia montana*, *Liriomyza*, Japan 5722
- Artemisia princeps*  
*Chrysolina aurichalcea* 815  
*Liriomyza*, Japan 5722
- Artemisia tridentata*  
*Europiella carvalhoi*, USA 11127  
extracts, effects, Coleoptera 10053  
habitats, Araneae, Utah 4780
- Artemisia tridentata wyomingensis*,  
*Europiella carvalhoi*, USA 11127
- Artemisia vulgaris*  
*Epiacanthus*, Honshu 6944  
*Pagaronia*, Honshu 12042  
*Phytomyza artemisivora*, Belgium 2025
- Arthropod pests**  
biological control agents, evaluation  
10469  
biology 5389  
cashews, India 678  
control  
biological control 5257, 6273  
history 6268  
chemical control 2545  
integrated control 399, 2545  
reports 9524  
reviews 10462  
distribution, South Africa 8307  
ecology, habitats 879  
food plants 5389  
fruits 9403  
insecticides, toxicity 11570  
natural enemies 879  
orchards, conferences 879  
ornamental plants, books 3729  
pasture plants  
damage 5451  
UK 5451  
pesticide resistance 1319  
pesticides, resistance 4246  
plants  
interactions, reviews 5270  
natural enemies, interactions 2109  
predators 4370  
resurgence, reviews 7576
- Arthropods**  
*Argyroderon actinophyllum*, monitor-  
ing, traps 4716  
barley, fields, Denmark 5712  
biochemistry  
fatty acids 140  
moulting hormones 5932  
proteins 11228  
biodiversity, sampling 3011  
biogeography 11073  
biology  
behaviour 1085, 4716  
diapause, models 10241  
environmental factors, models 9397  
symbionts 3911  
collections, books 8037  
deserts, USSR 2012  
distribution  
soil, models 10253  
Switzerland 1163  
ecology 3306-3307, 9277, 11073  
arthropod communities 2022  
environmental factors 3641  
habitats 1126, 3724  
mutualism 10250  
forest trees, Puerto Rico 3626  
genetics  
books 12088  
DNA 5987  
evolution 5008  
mitochondrial DNA 5989  
nucleotide sequences 5988  
transposable elements, reviews 7129
- insecticides**  
effects 90, 2350  
resistance 6111  
mimicry, reviews 7200  
monitoring, traps 6126  
morphology, size 5828  
Netherlands 6086  
nomenclature, floppy disks 12099  
orchards  
Slovakia 7802  
Switzerland 2547  
pastures, grazing, interactions 11756  
paternity, identification 4993  
pesticide resistance 11548



- Arthropods** *cont.*  
 physiology  
 endocrine system 8161  
 enzymes 90  
*Pinus*, wood, New South Wales 1695  
 plants  
 resistance 11681  
 UK 2397  
 populations, evolution, books 11072  
*Quercus*, Minnesota 1670  
*Quercus coccifera*, litter, Greece 3641  
 rice, fields, Fujian 2022  
 sampling 6086, 6126, 9380  
 taxonomy, phylogeny, reviews 2860  
*Wolbachia*, symbiosis 6087  
**Artocarpus**, *Bactrocera dorsalis*, Andaman and Nicobar Islands 11887  
**Artocarpus altilis**  
 extracts  
 insecticidal properties 8958  
 toxicity, *Tribolium castaneum* 8958  
**Artocarpus heterophyllus**, *Icerya aegyptiaca*, Bangladesh 5393  
**Artogeia rapae** (see *Pieris rapae*)  
**Artona chorista**  
 cardamoms 1735  
 parasitoids 1735  
**Arum concinatum**, insects, Greece 3673  
**Arum creticum**, insects, Greece 3673  
**Arum purpureospathum**, insects, Greece 3673  
**Arundo donax**, extracts, antifeedants, *Anthonomus grandis* 6401  
**Arvelius albopunctatus**  
*Solanum*, Argentina 603  
 taxonomy 603  
**3-Aryl-5-aryl-methyl-1,3,4-oxa(thia)diazol-2 (3H)-ones**, effects, *Tetranychus urticae* 434  
**2-Aryl-4-bromo-5-trifluoromethylpyrrole-3-carbonitriles**  
 synthesis 261  
 toxicity, insect pests 261  
**Arytaina**, taxonomy 10094  
**Arytaina marsupiae**  
*Pterocarpus marsupium*, Tamil Nadu 10094  
 taxonomy, new species 10094  
**Asaphes vulgaris**  
 biology, life history 6182  
 fields, habitats, Korea Republic 7355  
 hosts  
*Aphidius nigripes* 6182  
*Braconidae* 7355  
**Asaphidion flavipes**  
 biology, behaviour 203  
 fields, Belgium 203  
**Asarum sieboldii**, extracts, antifeedants, *Lepidoptera* 11700  
**Aschersonia**, control, *Bemisia tabaci*, greenhouse crops 4759  
**Aschersonia aleyrodis**  
 biology, germination 9508  
 hosts  
*Selenaspis articulatus* 2580  
*Trialeurodes vaporariorum* 9508  
**Ascidiae**, morphology 8104  
**Asclepiadaceae**, *Cerambycidae* 3530  
**Asclepias**  
*Danaus plexippus* 10154  
 North America 146  
**Asclepias curassavica**, *Danaus gilippus*, Florida 4025  
**Asclepias fascicularis**, *Lygaenus kalmii*, California 825  
**Asclepias incarnata**, *Danaus gilippus*, Florida 4025  
**Asclepias syriaca**, insects, pollination 2762  
**Asclepias tuberosa**, *Danaus gilippus*, Florida 4025  
**Ascogaster**  
 Asia 11112  
 hosts, *Zeiraphera* 3662  
*Larix*, forests, Hebei 3662  
 taxonomy 11112  
**Ascogaster quadridentatus**  
 biology, behaviour 9979  
 hosts  
*Cydia pomonella* 3230  
*Tortricidae* 9979  
 plant extracts, effects 9979  
**Ascogaster reticulatus**, hosts, *Adoxophyes* 3230  
**Ascosphaera proliperda**  
 culture techniques 2164  
 hosts, *Megachile rotundata* 2164  
**Ascotis selenaria**, soyabeans, Jiangsu 11768  
**Ascovirus**, hosts, *Spodoptera frugiperda* 6462  
**Asellus aquaticus**, insecticides, effects 6370  
**Ash trees** (see *Fraxinus*)  
**Asia**  
 agriculture, reports 861  
*Apis*, ectoparasites 11430, 11443  
*Apis mellifera*, ectoparasites 8360  
*Bactrocera dorsalis* 9350  
*Bactrocera dorsalis* group 8309  
*Bemisia tabaci* 4209  
 biological control 11544  
*Ceropria induta* group 10108  
*Coreidae* 9052  
*Dianemobius* 1014  
*Diuraphis noxia* 4037  
*Drosophila melanogaster* 1932, 2997  
 forests, insects, books 888  
 integrated pest management 2229  
*Macrosteles strifrons* 11120  
 mangoes, pest control 8789  
 pesticides, reports 3714  
 rice  
 pest control 572  
*Pomacea canaliculata* 7701  
*Sibatanozephyrus* 5648  
*Spodoptera pectinicornis* 6851  
*Sticholotidinae* 10095  
*Tenebrionidae* 8074  
**Asilidae**  
 Canary Islands 2039  
 distribution, New York 6199  
 prey 4038  
*Coleoptera* 4038  
*Tibraca limbativentris* 9725  
**Asobara rufescens**  
 biology, behaviour 306  
 Europe 306  
 hosts, *Drosophila melanogaster* 306  
 litter (plant), habitats 306  
**Asobara tabida**  
 biology 10365  
 behaviour 6065  
 genetics, genetic variation 6065  
 hosts  
*Drosophila* 332, 6065, 10365  
*Drosophila melanogaster* 11310  
**Asparagus**  
*Araecerus fasciculatus*  
 damage 11820  
 Karnataka 11820  
 commodities, insect pests, New Zealand 6597  
*Crioceris*, USA 10814  
 insect pests  
 control, cultural control 3522  
 South Africa 5502  
 pest control, Netherlands 623  
**Asparagus officinalis** (see *Asparagus*)  
**Aspergillus**  
 growth regulators, degradation 4299  
*Polistes olivaceus*, interactions 10291  
 Southern Africa, reviews 10454  
*Spodoptera littoralis*, interactions 10420  
 stored products pests, interactions 6878  
 vectors  
 insect pests 1272  
*Nitidulidae* 9699  
**Aspergillus alliaceus**, extracts, effects, insect pests 4229  
**Aspergillus alutaceus**, *Tribolium castaneum*, interactions 9018  
**Aspergillus candidus**, hosts, *Psychidae* 6708  
**Aspergillus flavus**  
 hosts, *Dysdercus cingulatus* 6235  
*Polistes olivaceus*, interactions 10291  
*Strophilus zeamais*, interactions 6885  
*Spodoptera littoralis*, interactions 10420  
**Aspergillus fumigatus**  
 hosts, *Coptotermes formosanus* 11526  
 insecticides, effects 10594  
**Aspergillus glaucus**, *Strophilus zeamais*, interactions 6885  
**Aspergillus ochraceus**, extracts, antifeedants, insect pests 3414  
**Aspergillus tamaritii**, *Polistes olivaceus*, interactions 10291  
**Aspergillus terreus**, insecticides, effects 10594  
**Asphodelus ramosus**  
*Asphodelus ramosus*, Israel 1739  
*Capsodes infusatus*  
 damage 1739  
 Israel 795  
**Asphondylia borrichiae**  
*Asteraceae*  
 Florida 10985  
 galls 10985  
*Borrichia frutescens*  
 Florida 5706  
 galls 5706  
 ecology, environmental factors 5706  
 parasitoids 10985  
**Aspidiotus**  
 control, chemical control 5590  
 tea, Kenya 5590  
**Aspidiotus cryptomeriae**  
 forest trees 10960  
 morphology 10960  
**Aspidiotus destructor**  
*Actinidia*, Hunan 5543  
 biology 5543  
 control, chemical control 5543  
 natural enemies 5543  
 spices, Kerala 1734  
**Aspidiotus neri**  
*Acacia cyanophylla*, Israel 7221, 11309  
 control, biological control 6695  
 ectoparasites 7221, 11309  
 kiwifruits  
 Chile 9901  
 New Zealand 6695  
 parasitoids 8269  
 predators 8271, 11435  
**Aspidiphorus**, taxonomy 10088  
**Aspidolopha melanophthalma**, mangoes, West Bengal 5558  
**Aspidosperma tomentosum**, extracts, effects, *Atta sexdens* 7999  
**Astegopteryx nipae**  
 parasitoids 11445  
 South East Asia 11445  
**Astegopteryx rhapsidis**  
 parasitoids 11445  
 South East Asia 11445  
**Astegopteryx roepkei**  
 biology, life cycle 10956  
*Styrax paralleloneura*  
 galls 10956  
 Indonesia 10956  
**Astegopteryx swinhoei**, taxonomy, synonyms, of *Pseudoregma bambusicola* 5812  
**Astegopteryx takenouchii**, taxonomy, to *Tuberaphis* 4832  
**Aster**  
*Dichomeris*, USA 12063  
*Liriomyza princeps*, Japan 5722  
**Aster yellows**, vectors, *Cicadellidae* 4208  
**Asteraceae**  
 arthropods, UK 2397  
*Curculionidae*, Europe 8005  
*Eurotiella*, Holarctic Region 11127  
*Myzus persicae*, Venezuela 4383  
*Paroxyna genalis*, California 5016  
*Phthorimaea operculella* 4487  
*Taeniothrips inconsequens* 1150  
**Astereae**, *Apion hookeri* 820  
**Asterocampa celtis**  
 biology, behaviour 7225  
 Kansas 7225  
**Asterococcus muratae**  
 biology, life history 8936  
 control, chemical control 8936  
 ornamental plants, Shaanxi 8936  
**Asterodiaspis**, taxonomy 5806  
**Asterodiaspis biformis**  
*Castanopsis delavayi*, Yunnan 5806  
 taxonomy, new species 5806  
**Asterodiaspis quercicola**  
 morphology, glands 5840  
 taxonomy 5840  
**Asterolecaniidae**, ornamental plants, Sicily 12023  
**Astiphromma strenuum**, distribution, Korea Democratic People's Republic 4042



- Astragalus*, *Anthaxia adiyamana*, Turkey 1828
- Astragalus mollissimus*, *Cleonis trivittatus*, New Mexico 8988
- Astriphromma*  
Korea Republic 3218  
taxonomy 3218
- Astriphromma strenuum*, Korea Republic 3218
- Astur* (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Astylus lateralis* (see *Lepropus lateralis*)
- Astylus atromaculatus*  
groundnuts  
damage 4632  
South Africa 4632
- Astylus variegatus*  
field crops, Minas Gerais 5421  
morphology 5421
- Asymmetrasca decedens*  
Citrus, Turkey 1566  
taxonomy 1566
- Asynapta hopkinsi*, *Pinus banksiana*, Ontario 7938
- Asynonychus cervinus* (see *Pantomorus cervinus*)
- Asynonychus godmanni* (see *Pantomorus cervinus*)
- Ataenius spretulus*  
lawns and turf, Ohio 10009  
sampling 10009
- Atalantia missionis*, insecticidal properties 6823
- Atanycolus initiator*  
biology, behaviour 7948  
hosts, Coleoptera 7948  
*Pinus*, habitats, Honshu 7948
- Atanycolus tomentosus*  
hosts, *Phoracantha* 5172  
synonyms, *Iphiaulax moorei* 5172
- Atelocera raptoria*  
pecans  
damage 9905  
South Africa 9905
- Atelura formicaria*  
Austria 1189  
biology, behaviour 1189  
*Lasius niger*, interactions 1189
- Atemeles emarginatus* (see *Lomechusa emarginatus*)
- Atesta*, taxonomy 1663
- Atesta angasi*, *Eucalyptus*, Australia 1663
- Atesta bifasciata*, *Eucalyptus melliodora*, Australia 1663
- Atesta dixonii*, *Eucalyptus*, Australia 1663
- Atesta patula*  
*Eucalyptus gomphocephala*, Australia 1663  
taxonomy, new species 1663
- Atesta sita*  
*Eucalyptus gomphocephala*, Australia 1663  
taxonomy, new species 1663
- Atesta tasmanica*, *Eucalyptus*, Australia 1663
- Atesta vittata*  
*Eucalyptus*, Australia 1663  
taxonomy  
from *Sisyrium* 1663  
synonyms, *Sisyrium ventrale* 1663
- Atethmia ambusta*  
attractants, effects 11850  
tree fruits, Bulgaria 11850
- Athalia infumata*, physiology, development 10138
- Athalia lugens*, *Brassica*, Himachal Pradesh 2602
- Athalia rosae*  
biology  
defence 2019  
reproduction 3803  
*Brassicaceae* 2019  
physiology, development 10138  
predators 2019
- Athalia rosae ruficornis*, predators 7349
- Atherigona approximata*, *Pennisetum americanum*, resistance 7693
- Atherigona biseta*, millets, resistance 6479
- Atherigona indica* (see *A. soccata*)
- Atherigona orientalis*  
biology, development 8116
- Atherigona orientalis* cont.  
monitoring, traps 8116  
Sao Paulo 8116
- Atherigona soccata*  
biology 1446  
control 1447  
chemical control 3446, 7689  
cultural control 10724  
integrated control 7686  
trapping 11553  
crops, Tamil Nadu 11553  
millets  
Bangladesh 5434  
resistance 5434  
natural enemies 2440  
parasitoids 1447, 8380  
*Pennisetum americanum*  
Rajasthan 10726  
resistance 10726  
predators 1417  
sorghum 8380  
Burkina Faso 1417, 2440  
Ethiopia 1447  
India 7686  
Karnataka 3446  
Maharashtra 7689, 10724  
resistance 1446, 4435, 6477, 7691
- Athetis lepigone*  
Beijing 5272  
monitoring, traps 5272
- Athidiplosis*, taxonomy, new genus 3772
- Athidiplosis walteri*  
*Acacia*  
galls 3772  
Kenya 3772  
taxonomy, new species 3772
- Atholus*  
Africa 8063  
taxonomy, keys 8063
- Athrycia cinerea*, hosts, *Mamestra configurata* 11540
- Athysanella*  
ecology 6518  
grasses, USA 6518
- Atlantic Ocean*, cod liver oil, pesticide residues 3360, 3367
- Atmosphere*  
insecticides  
residues 10660  
analysis 8584  
organochlorine compounds, residues 1184  
pesticides, residues 10664
- Atmospheric pressure*, effects, *Tetranychus urticae* 6051
- Atomaria*  
control, chemical control 11953  
pathogens 1257  
Spain 1257  
sugarbeet, Italy 11953
- Atomaria linearis*  
control, chemical control 2611, 10907, 11954  
sugarbeet 2611  
Czech Republic 5588  
Germany 10907  
Netherlands 11954
- Atomaria pallidipennis*  
pathogens 1257  
Spain 1257
- Atractocerus brasiliensis*, distribution, Nicaragua 3113
- Atractodes*  
Europe 8050  
taxonomy 8050
- Atractomorpha*  
ectoparasites 1186  
Tamil Nadu 1186
- Atractomorpha crenulata*, maize, Pakistan 1437
- Atrazine*, toxicity, *Metarhizium anisopliae* 2307
- Atrijuglans hetaohei*  
China 8465  
monitoring, traps 8465
- Atriplex halimus*, *Dasyhelea arenosa*, Spain 9738
- Atriplex polycarpa*, *Orthezia annae*, California 6185
- Atrophaneura*, biochemistry, secretions 11186
- Atrophaneura aristolochiae*  
*Aristolochia*, Andhra Pradesh 6034  
*Aristolochia indica*, Karnataka 1201  
biology, life history 6034  
ecology, population dynamics, models 2076  
parasitoids 1201  
Ryukyu Archipelago 2076
- Atrytone*, taxonomy 4869
- Atta*  
biology  
environmental factors 1980  
reproduction 1078
- Brachiaria*  
Colombia 7720  
resistance 7720  
control, cultural control 7720  
databases 11417  
ecology, population dynamics 1980  
*Eucalyptus*, Bahia 739
- Atta cephalotes*  
biology, behaviour 3038, 3182, 3955, 5034, 5133, 7188  
food plants 3955  
forests 3182  
*Leucoagaricus gongylophorus*, interactions 3181  
*Ligustrum vulgare* 5034  
predators 7925  
*Rinorea deflexiflora*, Costa Rica 7925
- Atta laevigata*  
biology, behaviour 8914  
ecology, environmental factors 9308  
genetics, DNA 3876  
*Pinus caribaea*  
damage 6786  
forests, Venezuela 8914  
Venezuela 6786  
savanna woodlands, Venezuela 9308
- Atta sexdens*  
*Amphisbaena*, interactions 7904  
biology  
behaviour 293  
diet 9273  
forests, Para 7904
- Atta sexdens piriventris*  
insecticides  
effects 1188  
toxicity 4216
- Atta sexdens rubropilosa*  
biology, behaviour 409, 7999  
ecology 1974  
fungi, interactions 1974  
*Leucocoprinus gongylophorus*, interactions 10285  
plant extracts, effects 7999  
rearing techniques 4077
- Attacus atlas*  
biochemistry, secretions 4940  
morphology, glands 4940  
predators 4940
- Attagenus unicolor*  
cereal grains 11040  
control, chemical control 11040
- Attelabidae*  
checklists, Italy 5088  
distribution, Italy 5088  
taxonomy 5088  
books 4816
- Atteva fabriciella*  
*Ailanthus*, India 2673  
insecticides, pathogenicity 11514  
natural enemies 2673
- Attractants*, pest control, reviews 11565
- Aubergines* (*Solanum melongena*)  
*Amrasca biguttula*, Haryana 7795  
*Aphis gossypii* 11821  
Japan 10288
- arthropod pests  
control, chemical control 2528  
Honshu 9814  
Sao Paulo 2528
- Bactrocera tau* 2540
- Bemisia tabaci*  
Dominican Republic 11831  
Florida 11774  
Netherlands 4759  
*Chrysomelidae* 8976  
commodities  
growth regulators, residues, analysis 4068



- Aubergines** *cont.*  
 commodities *cont.*  
 insecticides, residues 5503  
*Epilachna vigintioctopunctata* 7793, 10015  
 Himachal Pradesh 9816  
*Faustinus apicalis*, Colombia 5600  
 fields  
 Hymenoptera, Himachal Pradesh 9816  
*Orius*, Honshu 9814  
*Podisus maculiventris*, Greece 2526  
*Trathala flavoorbitalis*, Sri Lanka 1211  
 greenhouses, predatory mites 5174  
 habitats, parasitoids, Thailand 7797  
 insect pests 7781  
 Andhra Pradesh 9815  
 Greece 2526  
 resistance 9817  
 Uttar Pradesh 8744  
 West Bengal 9817  
 insecticides, residues 5506, 8616  
 interactions, insecticides 11821  
*Leptinotarsa decemlineata*, New Jersey 6612  
*Leucinodes orbonalis* 11822  
 Bangladesh 3526  
 Hunan 7794  
 Japan 10828  
 Orissa 10827  
 Sri Lanka 1211  
 yield losses 8744  
*Liriomyza trifolii* 10275  
 Japan 10829  
 Pentatomidae, Argentina 603  
*Phthorimaea operculella*, Turkey 11710  
*Spilostethus hospes*, India 8622  
*Spodoptera littoralis* 2194  
*Spodoptera pectinicornis* 6851  
*Tetranychus* 11830  
*Tetranychus cinnabarinus* 2536  
*Thrips nigropilosus* 529  
*Thrips palmi*  
 Florida 11775  
 Japan 7796  
 Thailand 7797  
 Venezuela 624, 5462
- Auchenorrhyncha**  
 distribution, Reunion 10308  
 ecology 3029  
 grasslands, UK 3029  
 morphology, wings 66  
*Pinus*, Germany 1637  
 wheat, UK 4409
- Augocoris gomesii*, sapodillas, Venezuela 7855
- Aulacaspis crawi*, predators 10374
- Aulacaspis tubercularis*, mangoes, South Africa 8790
- Aulacidea foliotti*  
 distribution, UK 3124  
*Sonchus asper*  
 galls 3124  
 UK 3124
- Aulacocentrum*, taxonomy 9094
- Aulacocentrum confusum*  
 hosts, Pyralidae 9094  
 taxonomy, new species 9094
- Aulacocentrum philippinense*  
 hosts, Pyralidae 9094  
 taxonomy 9094
- Aulacocentrum seticella*  
 hosts, *Psara* 9094  
 taxonomy, new species 9094
- Aulacophora foveicollis*  
 Cucurbitaceae 638  
 melons  
 Rajasthan 9820  
 varietal susceptibility 9820  
 physiology, reproduction 7091  
 plant extracts, attractants 638
- Aulacophora indica*  
 control, integrated control 1582  
 melons, Guam 1582
- Aulacophora similis* (see *A. indica*)
- Aulacorthum circumflexum*  
 grain legumes, Europe 10769  
 plant pathogens, transmission 10769
- Aulacorthum solani**  
 control  
 biological control 11817  
 chemical control 10824  
 ecology  
 phenology 7758  
 population dynamics 7759  
 grain legumes, Europe 10769  
 lettuces, Germany 11817  
 parasitoids 7759, 8367  
*Platargonium hortorum*, resistance 10011  
 plant extracts, effects 11564  
 plant pathogens, transmission 631, 10769, 10824  
 potatoes, Hokkaido 7754, 7758-7759  
 predators 7754, 7759  
 tomatoes  
 Italy 10824  
 Pakistan 631
- Aulocara ellioti**  
 biology, behaviour 5043, 5448  
 control  
 chemical control 5261  
 trapping 5446  
 fatty acids, attractants 5446  
 grasslands, Arizona 5261  
 rangelands, Wyoming 5446, 5448
- Aulosira fertilissima*, insecticides, degradation 2309
- Aureobasidium pullulans*, *Lasioptera ephedricola*, interactions 6822
- Australasia**  
*Bactrocera dorsalis* group 8309  
*Bactrocera papayae* 9351
- Australia**  
*Acacia nilotica*, biological control 8011  
 Acari 11405  
*Acyrtosiphon pisum* 174  
*Aphidius colemani* 7489  
*Aphytis* 7350  
 apples, *Eriosoma lanigerum* 6639  
 applied entomology, history 8350  
*Argyrodendron actinophyllum*, arthropods 4716  
 Asteraceae, *Helicoverpa* 3688  
 biological control 11544  
 birds, insecticide residues 460  
 Braconinae 4855  
*Cadra* 5087  
*Caledia captiva* 1030  
*Campylomma* 7  
 Carabidae 158  
*Ceratitis capitata* 6010  
 cereal grains  
 insect pests 3143  
 reports 8029  
*Chamaelacium uncinatum*, arthropod pests 6805  
 Coccidae 3741, 5800  
 cotton, integrated pest management, reviews 5603, 5605  
 crops, Acari 11706  
 Cryptorhynchinae 2031  
*Drosophila serrata* 1009-1010  
*Echium plantagineum*, biological control 5714  
*Epidendrum x obrienianum*, *Stethopachys formosa* 12039  
*Eucalyptus*  
 Atesta 1663  
 insect pests 6745  
*Phoracantha*, parasitoids 5172  
 Fabaceae, *Helicoverpa* 3688  
 farm forestry, books 9041  
*Ficus*, *Kradibia* 10102  
 field crops, *Crentiades* 11362  
 food, insecticide residues 4789  
 foods, genetic engineering, safety 2775  
 forest trees, insect pests 10932  
 Formicidae 10246  
 Goodeniaceae, *Helicoverpa* 3688  
 grapes  
 books 9038  
*Epiphyas postvittana* 10869  
 groundnuts, pest control 9043  
*Helicoverpa armigera* 9559  
 Hemiptera 6953  
*Idioscopus niveosparsus* 6953  
 insect pests 2002, 3151  
 insecticides  
 residues 2384
- Australia** *cont.*  
 insecticides *cont.*  
 residues *cont.*  
 analysis 2348  
*Lolium*, *Abacarus hystrix* 583  
 Macrochelidae 10251  
 marine environment, insecticides 3379  
*Medicago*, *Halotydeus destructor* 11764  
*Melaleuca quinquenervia*, *Oxyops vitiosa* 8981  
*Mimosa pigra*, *Mictis profana* 10024  
*Myrmecia pilosula* 4085  
*Nezara viridula* 975  
*Ommatolulus moreleti*, predators 6163  
 Orthoptera, ectoparasites 5163  
 pastures, Acari 11706  
 pears, *Tetranychus urticae* 8767  
 Penthalodidae 9053  
 pesticides, residues 4311  
*Podotenus* 4851  
*Portulaca oleracea*, insects 3695  
*Raphanus raphanistrum*, beneficial insects 8010  
*Rhantus* 1820  
 rivers, pesticide residues 2382  
 Satyrinae 9371  
 stored products pests, reports 855  
 sugarcane, Scarabaeidae, reviews 11950  
 Tephritidae 8315  
 Termatophylini 11105  
 Tettigoniidae 1802  
 Thysanoptera 3929  
 wheat, *Diuraphis noxia* 8637  
 Wingia group 6981  
 Australian Capital Territory  
*Coptotermes lacteus* 5139  
 grapes, mites 9868  
*Paralastor debilitatus*, predators 7215  
*Vespa germanica* 1203  
 New South Wales  
*Anthurium andreaeanum*, *Amblyseius anthurii* 735  
 apples  
*Eriosoma lanigerum* 7814  
 insect pests 2556  
 apricots, Nitidulidae 1546  
 aquatic animals, pesticide residues 2296  
 cabbages, *Plutella xylostella* 10801  
*Carduus nutans*, natural enemies 831  
*Chortoicetes terminifera* 9527  
 Citrus  
*Aonidiella aurantii* 4847  
 orchards, *Eupalopsis jameis* 4847  
 cotton  
*Helicoverpa armigera* 6733  
*Myzus persicae* 5608  
*Tetranychus urticae* 9948, 10923  
 Cycadaceae, insects 5622  
*Dendrobium*, *Stethopachys formosa* 10994  
*Drosophila buzzatii* 2998, 3000  
*Drosophila melanogaster* 1959  
*Eucalyptus*, *Anoplognathus* 8871  
*Eucalyptus camaldulensis*  
 insect pests 6751  
 insects 2662  
 fodder plants, pesticide residues 578  
 food plants  
*Helicoverpa punctigera* 6418  
 Heterocera 229  
*Theretra latreilli* 3667  
 fruits  
 commodities, insecticide residues 3710  
 pesticide residues 2325  
 grapes, *Acalolepta mixta* 11872-11873  
*Helicoverpa armigera* 2275  
 insects 823, 8639  
 lagoons, pesticide residues 3402  
 lemons, *Biprorulus bibax* 664  
*Melaleuca quinquenervia*, *Oxyops vitiosa* 12057  
 melons, *Bemisia tabaci* 10833  
 Neuroptera 1165  
 oranges, *Iridomyrmex* 11892  
 pastures, Acari 11755  
 peaches, *Carpophilus* 7060  
*Pinus*, wood, arthropods 1695  
 pome fruits, *Cydia pomonella* 2549



**Australia cont.**

## New South Wales cont.

rice, *Chironomus tepperi* 9734  
stone fruits, *Carpophilus* 7822  
sugarcane  
  *Antitrogus planiceps* 1612  
  *Aphaenogaster pythia* 2605  
  *Inopus rubriceps* 9923  
vegetables, pesticide residues 2325  
*Vespula germanica* 1203

## Northern Territory

cashews  
  *Helopeltis pernicialis* 11920  
insect pests 11921  
orchards, *Oecophylla smaragdina* 11921

*Citrus*, *Phyllocnistis citrella* 1565  
*Codiaeum*, *Icerya aegyptiaca* 9085  
crops, *Monolepta australis* 2650  
*Dendrobium*, *Stethopachys formosa* 10994

*Eucalyptus*

habitats, Formicidae 740  
insect pests 5637-5638

*Geocoris* 3752

*Iridomyrmex sanguineus* 2085  
helons, *Bemisia tabaci* 10833  
Rhinotermitidae 6206  
*Sida*, insects 2758

## Queensland

*Aegicerus corniculatum*, *Afrocypho-*  
*laelaps africana* 11288  
*Argyrodendron actinophyllum*, insect  
pests 748  
*Baccharis halimifolia*, biological con-  
trol agents, evaluation 5721  
*Bactrocera* 1292-1293  
bananas, *Nacoleia octasema* 1860  
*Brachychiton*, *Lygropia clytusalis*  
1681  
*Cissus antarctica*, *Amblyseius* 735  
*Citrus*

*Aonidiella aurantii* 6680  
arthropods 4588

*Codiaeum*, *Icerya aegyptiaca* 9085  
coffee, habitats, Acari 5596  
Cucurbitaceae, pest control, books  
5777

## Cycadaceae, insects 5622

*Dendrobium*, *Stethopachys formosa*  
10994

*Drosophila buzzatii* 2998, 3000  
*Eremocitrus glauca*, *Biprorulus bibax*  
4585

## field crops

*Helicoverpa* 5388  
Tenebrionidae 5396

fishes, insecticide residues 6368

## food plants

*Helicoverpa punctigera* 6418  
*Theretra latreilli* 3667

fruits, *Eudocima fullonia* 660  
*Geocoris* 3752

*Helicoverpa armigera* 2275  
marrows, Aphididae 1527

*Melaleuca quinquenervia*, *Oxyops*  
*vitiosa* 12057

*Murraya paniculata*

*Amblypelta lutescens*, parasitoids  
790

*Amblypelta lutescens lutescens*  
790

*Opuntia*

*Diaspis echinocacti* 4847  
habitats, *Euxothoris echinocactii*  
4847

*Parthenium hysterophorus*, natural  
enemies 3288

pawpaws, *Amblypelta lutescens* 6693  
pest control, reports 11062

pineapples, pest control 2584

Rhopalocera 3096

*Skeletodes* 11085

soil, insecticide residues 8593

sorghum, *Contarinia sorghicola* 562

## sugarcane

Aphididae 2608  
*Heteronychus arator* 8816  
*Inopus rubriceps* 1611, 9923  
*Lepidiodia picticollis* 7877  
*Saccharicoccus sacchari* 2604

**Australia cont.**

## Queensland cont.

*Tinospora smilacina*, *Eudocima* 5708

## South Australia

*Acacia iteaphylla*, *Mictis profana*  
9301

*Acacia longifolia*, *Amblyseius*  
*carverae* 735

birds, pesticide residues 4311

*Helicoverpa armigera* 9367

*Ommatolus moreleti* 11352

## potatoes

integrated pest management,  
reports 6907

pest control 5761

## Tasmania

*Boronia megastigma*

*Ctenarytaina thysanura* 6833

natural enemies 1737

*Eucalyptus regnans*, *Chrysophtharta*  
*bimaculata*, predators 2663

*Eucalyptus sieberi*, Lepidoptera 4675

pastures, *Oncopera* 5445

## Victoria

*Citrus*, *Pantomorus cervinus* 5556

*Drosophila* 7115

*Drosophila melanogaster* 2999

*Eucalyptus globulus*, insect pests  
5641

fodder plants, arthropod pests 11757

*Helicoverpa punctigera* 9260

human milk, insecticide residues  
10566

insects, predators 249

maize, *Helicoverpa armigera* 6455

Palmae, *Cephrenes augiades*  
*sperthias* 10995

## pome fruits

arthropod pests 5517

*Cydia pomonella* 2549

raspberries, *Ametastegia glabrata*  
9853

*Senecio jacobaea*, natural enemies  
1982

*Ulmus*, *Pyrhalta luteola* 4707-4710,  
8881

woody plants, Acari 1639

## Western Australia

*Citrus*, *Linepithema humile* 3552

*Eucalyptus*, *Ateia* 1663

*Eucalyptus marginata*, Perthida

glyphopa 5640, 8870

groundwater, pesticide residues 3405

habitats, *Drepanotermes tamminensis*  
11464

*Helicoverpa armigera* 9367

*Helicoverpa punctigera* 9260

*Linepithema humile* 10473

lupins, *Myzus persicae* 3140

mangoes, Formicidae 670

mined land, Collembola 3082

*Parietaria*, *Bassaris itea* 1746

## pastures

arthropod pests 11756

*Halotydeus destructor* 11758

potatoes, Coleoptera 9779

Rhopalocera 3096

*Schedorhinotermes breinli* 6207

soil, Formicidae 2093

*Trifolium subterraneum*, *Halotydeus*  
*destructor* 11763

woody plants, *Drepanotermes tam-*  
*minensis* 7370

**Austria**

*Alnus*, *Platycampus luridiventris* 5656

alpine grasslands, Orthoptera 9739

*Apis mellifera*, ectoparasites 1221

*Arianta arbustorum* 5202

*Atelura formicaria* 1189

Carabidae 2029

Coleoptera 2027

Collembola 3073

Drosophilidae 1180

## forest trees

*Cameraria ohridella* 10954

*Ips typographus* 10959

*Taleporia tubulosa* 5028

forests, Hymenoptera 5028

fruit vegetables, arthropod pests 10465

grasslands, insects 4452

*Lasius* 1189

**Austria cont.***Leptusa* 1832

ornamental plants, arthropod pests 10465

ornamental woody plants, *Phloeosinus*  
10977

*Phragmites australis*, natural enemies  
11017

*Picea*, *Pristiphora abietina* 6797

*Picea abies*

forests, insects 10971

*Ips typographus* 7957

Scolytidae 1701, 2709

*Pinus sylvestris*, *Neodiprion sertifer* 4727

*Rhamnus cathartica*, Cecidomyiidae 1826

Sisyridae 3931

*Torymus* 1826

*Vespula vulgaris* 966

**Austrian pine** (see *Pinus nigra*)

**Austroeupeatorium inulaefolium**, extracts,  
antifeedants, *Sitophilus oryzae* 1730

**Austrotachardiella sexcordata**

*Myrciaria dubia*, Peru 6671

taxonomy, new species 6671

**Austrotachardiella trilobata**, taxonomy, from

*Tachardiella* 6671

**Austrozele longipalpis**

hosts, *Hypena crassalis* 2859

taxonomy, new species 2859

**Autographa californica**

cell lines, pathogens 373, 8423, 11512

hosts, Noctuidae 4143

nuclear polyhedrosis viruses, genetics,  
genes 5005, 5241

pathogens 359, 1253, 1267, 1443, 2163,

2168, 2170, 2191, 2985, 4150,

4155, 5227, 5236, 5242, 6231,

6255, 7128, 7443-7445, 8425,

9485-9486, 10412, 10416, 11499

**Autographa gamma**

biology 8243

environmental factors 6583

cabbages, Hokkaido 6583

Hungary 8243

maize, Italy 5419

monitoring, traps 5419

pheromones 2389

**Autographa nigrisigna**, parasitoids 9426

**Automeris io**

control 7482

Florida 7482

**Avena sativa** (see Oats)

**Avetianella**, distribution, Australia 5172

**Avetianella longoi**

distribution, Australia 5172

hosts, *Phoracantha semipunctata* 5172

**Avermectins**

resistance

*Hypothenemus hampei* 5293

Lepidoptera 6339

**Averrhoa carambola**

arthropod pests, South Africa 6690

*Bactrocera carambolae* 9897

commodities

*Anastrepha obliqua*, Sao Paulo 10031

Tephritidae 10030

*Eucosma notanthes* 3568

*Eudocima fullonia*, Queensland 660

Tephritidae, Goias 7840

**Avetianella**, control, *Phoracantha*  
*semipunctata*, *Eucalyptus* 6814

**Avetianella longoi**

biology, behaviour 5639

*Eucalyptus*, habitats, Italy 5639

hosts, *Phoracantha semipunctata* 5639

**Avicennia germinans**

insect pests

Belize 722

damage 722

**Avocado pears** (see Avocados)

**Avocados** (*Persea americana*)

*Bactrocera dorsalis*, Hawaii 9904

commodities, insect pests, New Zealand  
11038

*Cryptophlebia leucotreta*

damage 3563

South Africa 3563

insects

pollination 659, 10872

South Africa 10872

*Protopulvinaria pyriformis*, South Africa  
10890



**Avocados** *cont.**Pseudacysta perseae*, Florida 5561*Pseudotherapsis wayi*

damage 4545

South Africa 4545

*Tegolophus myersi*, Chile 9358**Axylla putris**

Beijing 5272

monitoring, traps 5272

**Aylax**, taxonomy, revisions 4844**Aylax luteipes**, taxonomy, to *Timaspis* 4844**Aylax pilicornis**, taxonomy, to *Timaspis* 4844**Aythya americana**, pesticides, residues 2327**Azadirachta excelsa**, extracts, effects, *Epilachna varivestis* 1725**Azadirachta indica**bark, effects, *Coptotermes formosanus* 11003

control

arthropod pests, cotton 8838

*Phthorimaea operculella*, potatoes, commodities 12074effects, *Earias vittella* 8748

extracts

antifeedants, *Schistocerca gregaria* 4381, 4764, 6830, 8490

control

*Helicoverpa armigera*, chickpeas 5465*Nomadacris septemfasciata*, maize 10712*Sitona lineatus* 4473

effects

*Chauliops fallax* 8500

Coleoptera 4801

*Epilachna varivestis* 1725*Forficula auricularia* 12044*Helicoverpa armigera* 8501

rats 1729

*Rhyzopertha dominica* 9002

stored products pests 8953

*Tetranychus* 11830

insecticidal properties 808, 8958

mixtures

control

cardamoms, *Sciothrips*

cardamomi 7988

*Orseolia oryzae*, rice 5440

toxicity

*Acyrtosiphon pisum* 7554*Lipaphis erysimi* 8490*Rhyzopertha dominica* 10036*Tribolium castaneum* 8958

insect pests, Tamil Nadu 5779-5780

insecticidal properties 4764, 6830

reviews 8481

oils

control, *Myzus persicae*, tobacco 5599

effects

*Aleurolobus barodensis* 3596

Aphididae 514

*Lipaphis erysimi* 6590*Schistocerca gregaria* 11797repellents, *Hemiberlesia pitysohila* 9661wood, effects, *Coptotermes formosanus* 11003**Azadirachtin** (see also Neem extracts)

analysis 10339

antifeedants

*Spodoptera littoralis* 1731*Spodoptera litura* 6332

chemistry, structure 8484

control

*Aleurolobus barodensis*, sugarcane 1613*Dendroctonus ponderosae*, *Pinus contorta* 7951*Helicoverpa zea*, melons 7799

crystallization 6403

derivatives, antifeedants, *Spodoptera littoralis* 525

effects

*Acheta domesticus* 10544

Acrididae 10520

Aphididae 514

*Bemisia argentifolii*, assays 11655*Gryllus bimaculatus* 8167

insect pests 9549

**Azadirachtin** *cont.*effects *cont.*

insects 11679

*Neoseiulus cucumeris* 11640*Schistocerca gregaria* 4764*Tribolium confusum* 6328*Trichogramma pretiosum* 7799

nontarget effects, chrysanthemums 10992

persistence, *Populus tremuloides* 11991

residues, forest trees 7907

toxicity

*Acyrtosiphon pisum* 7554*Tetranychus urticae* 11991**Azalea**, *Brevipalpus*, Sao Paulo 3934**Azaleas** (see *Rhododendron*)**Azaleothrips bhattii***Ficus benghalensis*, Uttar Pradesh 1814

taxonomy, new species 1814

**Azamethiphos**, effects, quails 2288**Azerbaijan**, *Stictocephala bisonia* 8316**Azinphos-ethyl**

residues

invertebrates 6369

olives, commodities 12078

toxicity, *Artemia salina* 4289**Azinphos-methyl**

control

*Cydia molesta*, pome fruits 7809*Cydia pomonella*

apples 11849

pome fruits 2549

insect pests, *Pinus* 6782*Metacalfa pruinosa*, fruits 11854

Pyralidae, sugarcane 3588

*Rhagoletis pomonella*, apples 9841effects, *Xenopus laevis* 3358

formulations, water hardness, effects 3324

nontarget effects

*Amblyseius andersoni* 4554

beneficial insects 2551

mammals 10579

man 1371

residues

bogs 11675

cotton 9953

kiwifruits 9901

*Vaccinium* 11675

resistance

*Aphytis* 7578*Cacopsylla pyri* 4252*Cydia pomonella* 10841*Edwardsiana crataegi* 6637*Euseius finlandicus* 4122, 5518*Leptinotarsa decemlineata* 440, 6325*Phyllonorycter elmaella* 7548-7549*Platynota idaeusalis* 6635, 7819*Plutella xylostella* 447

stability 6298

toxicity

Amphibia 6362

Braconidae 10587

*Chrysoperla rufilabris* 4318*Cydia pomonella* 11849*Leptinotarsa decemlineata* 4261

mice 2329

*Photobacterium phosphoreum* 10616*Rhagoletis pomonella* 9569**Azinphosethyl** (see Azinphos-ethyl)**Azinphosmethyl** (see Azinphos-methyl)**Aziridines**, effects, Aphididae 6335**Azobenzene**, residues, determination 5286**Azocyclotin**

control

*Aceria macrodonis*, *Lycium chinense* 7982*Tetranychus urticae*, apples 5522effects, *Oligota fageli* 5523**Azodrin** (see Monocrotophos)**Azolla**, insecticides, residues 2359**Azospirillum brasilense**, genetics, genes 7468**Azospirillum lipoferum**, genetics, genes 7468**Azotobacter chroococcum**, insecticides, resistance 4278**Azotus perspicuosus**

fruits, habitats, Italy 11844

hosts, *Encarsia berlesesi* 11844**Azteca chartifex** var. *spiriti*

cocoa, Bahia 10910

**Azteca chartifex** var. *spiriti* *cont.*

plant pathogens, transmission 10910

**Azteca foreli**, cocoa, Venezuela 5597**Azteca trigona**

biology, behaviour 213

mangrove forests, Panama 213

pheromones 213

**BA-1**, control, *Helicoverpa armigera*, cotton 10924**Baccharis**, Mexico 6840**Baccharis conferta**

insects, Mexico 5721

*Stobaera pallida*, North America 827**Baccharis dioica**, insects, Mexico 5721**Baccharis halimifolia**, biological control

agents, evaluation 827, 5721

**Baccharis linearis**, extracts, effects, *Helicoverpa zea* 8598**Baccharis neglecta**, *Stobaera pallida*, North America 827**Baccharis sarothroides**, *Tephritis arizonensis*, California 829**Bacchisa guerrii**

biology 11860

control 11860

pears, China 11860

**Bacilex** (see *Bacillus thuringiensis* subsp. *aizawai*, with *B. t.* subsp. *kurstaki*)**Bacillus**hosts, *Exorista bombycis* 6272

insecticides, effects 11650

**Bacillus atticus**

Europe 5010

taxonomy 5010

**Bacillus atticus atticus**

genetics

biochemistry 5010

parthenogenesis 1017

**Bacillus atticus carius**, genetics, biochemistry 5010**Bacillus cereus**

genetics, gene transfer 3280

hosts, *Diabrotica speciosa* 8332**Bacillus coagulans**, hosts, *Plutella xylostella* 370**Bacillus megaterium**

genetics, toxins 8431

persistence, phyllosphere 8431

**Bacillus popilliae**

control

*Cyclocephala hirta*, lawns and turf 791*Popillia japonica* 7717

genetics, plasmids 5219

hosts

*Amphimallon solstitialle* 2187*Cyclocephala hirta* 791*Melolontha hippocastani* 2187

Scarabaeidae 10441

**Bacillus rossius**, genetics 1013**Bacillus rossius catalauniae**, taxonomy 1013**Bacillus rossius rossius**, taxonomy 1013**Bacillus sphaericus**

biochemistry, enzymes 4164

effects, *Laccotrephes griseus* 1265hosts, *Laccotrephes griseus* 1265**Bacillus subtilis**, hosts, *Plutella xylostella* 370**Bacillus thuringiensis**

application 10526

sprays 3156

biochemistry

fatty acids 3149

toxins 2160

biology, wild strains 8432

biotechnology 10497

characterization 2198, 10407

control

arthropod pests, almonds 6700

*Choristoneura occidentalis*, Pinopsida 4720*Galleria mellonella*, comb honey 3297*Helicoverpa armigera*, cotton 10912

insect pests

apples 1536

crops 7490

*Cucurbita pepo* 11835

groundnuts, commodities 2780

raspberries 3542, 4570



***Bacillus thuringiensis* cont.**

- control cont.
- insect pests cont.
- reviews 385
- tomatoes 7789, 8733
- Lepidoptera, cabbages 1509
- Leptinotarsa decemlineata*, potatoes 1492, 9783
- Leucinodes orbonalis*, aubergines 7794
- Lobesia botrana*, grapes 9870
- Lymantria dispar*
- forest trees 4679
- forests 4210
- parks 4684
- Manduca quinquemaculata*, tobacco 702
- Noctuidae
- evaluation 4166
- soybeans 11765
- Nystalea nyseus*, *Eucalyptus* 739
- Ostrinia nubilalis* 11732
- maize 6460
- Plutella xylostella*, cabbages 1504
- Pyrrhalta luteola*, *Ulmus* 745, 4707, 4711
- Scrobipalpula absoluta*, tomatoes 2535
- Zeuzera pyrina*, evaluation 3274
- culture techniques 262, 10413
- droplets, evaporation 9463
- effects
- insect viruses 10437
- Lepidoptera 6259
- endotoxins 11519
- field crops, genetic engineering 10683
- formulations 364, 1245, 7458
- bioassays 10351
- genetic engineering 7472, 9520
- pest resistance 559, 703, 2233, 2632, 4701, 8931
- genetics
- chromosomes 5240
- DNA 11485
- gene expression 11491
- gene transfer 6119
- genes 7468, 9521
- toxins 9713
- genetic engineering 5234, 10425
- proteins 8437
- proteins 5239-5240
- reviews 5210
- toxins, gene expression 7387
- hosts
- Bombyx mori* 2181
- Chilo partellus* 2185
- Choristoneura fumiferana* 364
- Choristoneura rosaceana* 9516
- Coleoptera 2162, 4158, 10425
- Corcyr a cephalonica* 11532
- Cryptoblabes gnidiella* 8424
- Delia* 7767
- Diabrotica speciosa* 8332
- Helicoverpa zea* 7453
- Heliothis virescens* 7394
- insect pests 7956, 10433
- insects, *Populus* 7920
- Lepidoptera 2172, 3265, 9500, 11521, 11527
- Leptinotarsa decemlineata* 5244
- Lymantria dispar* 4210
- Manduca sexta* 2198, 7464, 11495
- Noctuidae 5234
- Plutella xylostella* 6256, 11577
- Spodoptera frugiperda* 2196
- Spodoptera littoralis* 6244
- Spodoptera litura* 9472
- stored products pests 2781
- Tenthredinidae 7434
- Tetranychus urticae* 5522
- insect pests, resistance 9530
- insects, resistance 2211
- Korea Republic 2181
- metabolites, attractants, *Anastrepha ludens* 4361
- nontarget effects
- Carabidae 11851
- predatory insects 10912
- pathogenicity, *Lymantria dispar* 9571
- pest control 2214, 10468
- phagostimulants, interactions 6259

***Bacillus thuringiensis* cont.**

- phytotoxicity, wheat, seeds 11723
- plasmids 3266
- registration, Poland 10526
- research 11529
- resistance
- insects 7382
- Lepidoptera 6339
- Plutella xylostella* 1276, 5222, 9510, 10548, 11588, 11592, 11594
- soil, Sweden 10404
- sprays, evaporation, models 387
- strains 7435
- differentiation 3149
- tobacco, transgenic plants 7500
- toxicity
- assays 2213
- Deroceras reticulatum* 11723
- toxins 2196, 3265, 3267, 7454
- control, *Tetranychus urticae*, apples 5522
- effects
- Bombyx mori* 4204, 9504
- Leptinotarsa decemlineata* 9785
- Manduca sexta* 7464
- Oligota fagei* 5523
- Orius sauteri* 311
- Phthorimaea operculella* 4172
- Spodoptera frugiperda*, cell lines 3275
- genetic engineering 7501
- genetics 11491
- Manduca sexta* 9461
- mode of action 7453
- resistance
- insect pests 9581
- Plutella xylostella* 6248, 10539
- toxicity
- Anomala cuprea* 4163
- Bombyx mori* 3276
- Elasmopalpus lignosellus* 9515
- Lepidoptera 10418
- Manduca sexta* 11485
- transgenics, tomatoes 634
- Bacillus thuringiensis* subsp. aizawai**
- control, *Plutella xylostella*, cabbages 10803
- genetics
- gene expression 8407
- gene transfer 6245
- genes, toxins 357
- hosts
- Bombyx mori* 5231
- Hyphantria cunea* 11515
- Lepidoptera 357
- cell lines 3269
- Lobesia botrana* 3546
- Plutella xylostella* 370
- toxins 6245
- Bacillus thuringiensis* subsp. aizawai**, toxins, resistance, *Plutella xylostella* 10539
- Bacillus thuringiensis* subsp. aizawai**
- toxins
- toxicity
- Lepidoptera 11498
- Plutella xylostella* 1245
- Bacillus thuringiensis* subsp. alesti**, toxins, toxicity, Lepidoptera 11498
- Bacillus thuringiensis* subsp. canadensis**, toxins, toxicity, Lepidoptera 11498
- Bacillus thuringiensis* subsp. entomocidus**
- genetics, gene expression 8407
- hosts, *Plutella xylostella* 370
- toxins, toxicity, Lepidoptera 11498
- Bacillus thuringiensis* subsp. galleriae**
- genetics, genes, toxins 5243
- hosts, *Galleria mellonella* 367, 11522
- toxins
- production 11517
- toxicity, Lepidoptera 11498
- Bacillus thuringiensis* subsp. israelensis**
- biochemistry 5229
- proteins 9465
- genetics, gene transfer 3280, 9465
- hosts
- Liriomyza bryoniae* 11520
- Plutella xylostella* 370
- toxins 1266

***Bacillus thuringiensis* subsp. japonensis**

- control, *Anomala cuprea*, sweet potatoes 8718
- genetics
- nucleotide sequences 6251
- toxins 4165
- hosts
- Anomala cuprea* 4165, 8718
- Scarabaeidae 6251
- synergism 10418
- toxins
- persistence, soil 7456
- toxicity, *Anomala cuprea* 7456
- Bacillus thuringiensis* subsp. kenya**
- genetics, genes 1268
- hosts, *Plutella xylostella* 370
- toxins, toxicity, Lepidoptera 1268, 11498
- Bacillus thuringiensis* subsp. kurstaki**
- biochemistry, fatty acids 6229
- control
- arthropod pests, peaches 11864
- Cadra*, dates 3540
- Choristoneura fumiferana*
- Abies balsamea* 7960
- Pinopsida 756
- Costelytra zealandica*, *Lolium* 6514
- Lepidoptera
- Brussels sprouts 4515
- medicinal plants 6821
- tomatoes 4527
- Lobesia botrana*, grapes 3546
- Lymantria dispar*
- evaluation 4673
- Quercus* 5645
- Ostrinia nubilalis*
- evaluation 11731
- maize 4424, 6459, 10708-10709
- Pieris brassicae*, cabbages 7777
- Plutella xylostella*
- cabbages 10803
- kale 4511
- Spodoptera exigua*, maize 5414
- Spodoptera frugiperda*, maize 6463
- Tortricidae 2569
- dispersal 7777
- effects
- forest soils 1374
- natural enemies 5645
- formulations 2192, 4424, 5414, 5645, 6337
- Bacillus thuringiensis* subsp. kurstaki**, formulations 11571
- Bacillus thuringiensis* subsp. kurstaki**
- genetics
- gene transfer 3255
- genes 4665
- toxins 357
- toxins 8431
- hosts
- Choristoneura fumiferana* 4192, 11494
- Choristoneura rosaceana* 9854
- Cryptoblabes gnidiella* 8424
- Heliothis virescens* 9512
- Hyphantria cunea* 11515
- Lepidoptera 357, 2172, 4515, 10438, 11571
- cell lines 3269
- Lymantria dispar* 4673, 8865, 9974
- Pericallia ricini* 7458
- Pieris canidia* 11510
- Plutella xylostella* 370, 4160, 6256, 10506
- Spodoptera litura* 3270, 10351
- mixtures
- control
- arthropod pests, peaches 11864
- Noctuidae, cotton 11969
- Spodoptera exigua*, maize 5414
- nontarget effects
- aquatic insects 8543
- predatory insects 5414
- predatory mites 9839
- persistence, phyllosphere 8431
- proteins, PAGE 2074
- resistance
- Choristoneura fumiferana* 9568
- Plodia interpunctella* 4206
- Bacillus thuringiensis* subsp. kurstaki**, resistance, *Plutella xylostella* 10540



**Bacillus thuringiensis subsp. kurstaki**  
toxicity  
  *Choristoneura fumiferana* 8929  
  Eulophidae 7577  
toxins  
  adsorption, clay 4185  
  persistence, crops 2192

**Bacillus thuringiensis subsp. kurstaki**, tox-  
ins, resistance, *Plutella xylostella* 10539

**Bacillus thuringiensis subsp. kurstaki**  
toxins  
  toxicity  
    *Chrysodeixis includens* 2192  
    Lepidoptera 3255, 7463, 11498  
    *Plutella xylostella* 1245

**Bacillus thuringiensis subsp. morrisoni**  
genetics, transposable elements 7386  
synergism 10418

**Bacillus thuringiensis subsp. neoleonensis**,  
toxins, toxicity, Lepidoptera 11498

**Bacillus thuringiensis subsp. san diego**,  
effects, *Coleomegilla maculata lengi* 2156

**Bacillus thuringiensis subsp. sotto**, hosts,  
*Plutella xylostella* 370

**Bacillus thuringiensis subsp. tenebrionis**  
control  
  *Leptinotarsa decemlineata*  
    aubergines 6612  
    potatoes 6558, 9775-9776, 11794  
  *Pyrrhalta luteola*, evaluation 4710  
  *Pyrrhalta viburni* 12027  
genetics  
  DNA amplification 10421  
  genes, toxins 11777  
  toxins 4481

**Bacillus thuringiensis subsp. tenebrionis**,  
genetics, toxins, genes 11479

**Bacillus thuringiensis subsp. tenebrionis**,  
hosts, *Leptinotarsa decemlineata* 10506

**Bacillus thuringiensis subsp. tenebrionis**,  
hosts, *Leptinotarsa texana* 11479

**Bacillus thuringiensis subsp. tenebrionis**  
nontarget effects, predatory insects 6162  
pathogenicity, toxicity, *Gonioctena forni-  
cata* 2480  
resistance, *Leptinotarsa decemlineata* 9567  
toxicity, *Leptinotarsa decemlineata* 4261  
toxins  
  adsorption, clay 4185  
  control, *Trirhabda nitidicollis*, *Chrys-  
othamnus* 4465

**Bacillus thuringiensis subsp. thompsoni**,  
genetics, genes, crystal proteins 7385

**Bacillus thuringiensis subsp. thuringiensis**  
control  
  insect pests, potatoes 6559  
  *Leptinotarsa decemlineata*, potatoes 11794  
  hosts, *Pericallia ricini* 7458  
  insecticidal properties 9523  
  toxins, detection 6124

**Bacillus thuringiensis subsp. tochigiensis**,  
toxins, toxicity, Lepidoptera 11498

**Bacillus thuringiensis subsp. tolworthi**,  
genetics, DNA amplification 10421

**Bacillus thuringiensis subsp. tolworthi**  
genetics, genes, toxins 357  
hosts, Lepidoptera 357  
toxins, toxicity, Lepidoptera 11498

**Bacillus thuringiensis subsp. wuhanensis**,  
toxins, production 11517

**Bacillus thuringiensis subsp. yunnanensis**,  
crystal proteins, separation 8326

**Bacteria** (see also Entomopathogenic  
bacteria)  
*Acyrthosiphon pisum*, symbiosis 11770  
cyanobacteria, pesticides, effects 9621  
entomophilic nematodes, interactions 5206  
hosts  
  *Drosophila* 11484  
  *Heliothis subflexa* 2936  
  insects 148  
insecticides, resistance 4278  
insecticides/insecticides, effects 3395  
insects, symbionts 4981  
*Megaselia scalaris*, interactions 5699  
*Myzus persicae*, symbiosis 3271

**Bacteria cont.**  
Tingidae, secretions, effects 11192

**Bacterial insecticides** (see also Microbial  
pesticides)  
control, stored products pests 8016  
resistance, *Leptinotarsa decemlineata* 5244  
toxicity, assays 2213

**Bactrocera**  
control, trapping 1293  
distribution, Taiwan 3101  
monitoring, traps 1292  
Queensland 1292-1293  
taxonomy 9084

**Bactrocera albistrigata**, Indonesia 7291

**Bactrocera carambolae**  
distribution 9897  
taxonomy, new species 6945  
tropical fruits 6945, 9897

**Bactrocera caryeae**  
distribution, South Asia 9882  
fruits 9882

**Bactrocera correcta**  
genetics, chromosomes 8341  
identification 8341

**Bactrocera cucurbitae**  
attractants 3308  
*Averrhoa carambola*, commodities 10030  
biology 3006, 11837  
behaviour 3308  
circadian rhythm 7314  
environmental factors 5067  
chilling, effects 10348  
China 4031  
containers 10348  
control 2210, 6598  
  chemical control 6618, 6620  
  controlled atmospheres 10030  
  hot air treatment 10029  
cucurbit vegetables, Rajasthan 6618  
Cucurbitaceae, Pakistan 1528, 3006  
diets 7029  
ecology, population dynamics 4031  
food plants 11837  
  China 6598  
  fruits, China 2210  
  genetics, chromosomes 8341  
  Hawaii 7521  
  identification 8341  
  insecticides, toxicity 7521  
  *Momordica charantia*, Pakistan 6620  
  monitoring, traps 10490  
  Nauru 10490  
  parasitoids 7521  
  pawpaws, commodities 10029  
  Ryukyu Archipelago 10348  
  synthetic diets, effects 8469  
  Taiwan 3308

**Bactrocera depressa**  
field crops  
  damage 6599  
  Korea Republic 6599

**Bactrocera dorsalis**  
Andaman and Nicobar Islands 11887  
attractants 4365, 6396  
*Averrhoa carambola*, commodities 10030  
avocados, Hawaii 9904  
biology  
  behaviour 5565, 9940  
  environmental factors 4009  
*Ceratitis capitata*, interactions 9940  
chemosterilants, effects, reviews 177  
coffee, USA 9940  
control 2210, 6598  
  biological control 5565, 8795  
  controlled atmospheres 10030  
  hot air treatment 10029  
  trapping 1293  
crops 9350  
distribution 9350  
  Andaman and Nicobar Islands 11887  
  Guyana 11385  
food plants, China 6598  
fruits  
  China 2210  
  Hawaii 2236  
genetics  
  chromosomes 8341  
  genes 1934  
  guavas, Hawaii 5565, 8795  
  Hawaii 1216, 4365, 6396, 7521

**Bactrocera dorsalis cont.**  
identification 8341  
insecticides, toxicity 7521  
monitoring, traps 1292, 2236, 10490  
Nauru 10490  
parasitoids 1216, 2887, 7521, 8795, 9434, 9940  
pawpaws, commodities 10029  
Queensland 1292-1293  
radiation, effects 9261  
taxonomy 6945

**Bactrocera dorsalis group**, distribution 8309

**Bactrocera frauenfeldi**  
monitoring, traps 10490  
Nauru 10490

**Bactrocera kandiensis**  
crops, Sri Lanka 9894  
distribution, Sri Lanka 9894  
taxonomy, new species 6945  
tropical fruits 6945

**Bactrocera latifrons**  
attractants 7507  
Hawaii 7507  
monitoring, traps 7507

**Bactrocera minax**  
Citrus, China 9887  
control 2210  
fruits, China 2210  
physiology, diapause 9887

**Bactrocera musae**, monitoring, traps 5549

**Bactrocera occipitalis**  
crops, South East Asia 9893  
distribution, South East Asia 9893  
genetics, chromosomes 8341  
identification 8341

**Bactrocera oleae**  
biology 7868  
  behaviour 6710, 11932  
  oviposition 5577  
control  
  chemical control 8808, 11930, 11932  
  integrated control 6709  
monitoring, traps 5549, 6710  
olives 5577, 7868  
  Algeria 11932  
  Greece 6710  
  Italy 8808, 11930  
  Spain 6709  
parasitoids 3371  
pathogens 7869  
pheromones, effects 1397  
plant extracts, effects 684

**Bactrocera papayae**  
crops 9351  
distribution 9351  
Indonesia 7291  
taxonomy, new species 6945  
tropical fruits 6945

**Bactrocera paraxanthodes**  
*Bactrocera xanthodes*, differentiation 9084  
taxonomy, new species 9084

**Bactrocera passiflorae**, taxonomy 9084

**Bactrocera pedestris**, taxonomy 6945

**Bactrocera philippinensis**  
crops, Philippines 9892  
distribution, Philippines 9892  
taxonomy, new species 6945  
tropical fruits 6945

**Bactrocera pyrifoliae**  
crops, Thailand 9898  
distribution, Thailand 9898

**Bactrocera tau**  
biology  
  development 2540  
  environmental factors 5064  
China 4031  
control 2210  
ecology, population dynamics 4031  
food plants 2540  
fruits, China 2210  
genetics, chromosomes 8341  
identification 8341

**Bactrocera tryoni**  
control, hot water treatment 383  
monitoring, traps 5549  
radiation, effects 6106

**Bactrocera xanthodes**  
*Bactrocera paraxanthodes*, differentiation 9084  
monitoring, traps 10490



- Bactrocera xanthodes** cont.  
Nauru 10490
- Bactrocera zonata**, taxonomy 6945
- Bactromyia**  
distribution, China 8382  
tea, plantations, Hunan 8382
- Baculoviridae**  
biochemistry 5237  
control  
*Oryctes rhinoceros* 8453  
oil palms 3581  
culture techniques 11533  
books 8038  
genetic engineering, reviews 7446  
genetics  
gene expression 6250, 7128, 10221  
genes 2180, 5212, 9476  
genetic engineering 1267, 2054, 9033, 10071  
genetic vectors 1271  
hosts  
*Autographa californica* 7128  
insect pests 5228, 7467  
insects 8038  
cell lines 6324  
*Lymantria dispar* 1679  
*Ocnogyna baetica* 330, 7432  
*Phthorimaea operculella* 7755  
*Plodia interpunctella* 4162  
*Pyrrhocoris apterus* 7437  
*Spodoptera frugiperda*  
cell lines 2052, 2054, 2080, 4906, 7095, 11533-11534  
cells 4925  
*Tipula paludosa* 2171
- Baculovirus**  
control  
forest pests 7901  
Noctuidae, cotton 2637  
genetic engineering, pest resistance 2430  
genetics, gene transfer 5991  
hosts  
*Oryctes rhinoceros* 1259, 10443  
*Spodoptera frugiperda*, cell lines 2968, 3137, 10153, 10353  
tryptophan, protectants 11478
- Baculovirus heliothis**  
hosts, Noctuidae 4183  
solar radiation, effects 4183
- Baculovirus spodoptera**, control, *Spodoptera frugiperda* 8451
- Baculum impigrum**, physiology, nervous system 1897, 10183
- Baeacris punctulatus**, biological control  
agents, evaluation 4213
- Bagous affinis**  
biology, environmental factors 6074  
control, *Hydrilla verticillata*, evaluation 2751  
*Hydrilla verticillata* 6850  
California 2751
- Bagrada cruciferarum** (see *B. hilaris*)
- Bagrada hilaris**  
cabbages, Himachal Pradesh 4513  
ecology, population dynamics 4513
- Bahamas**  
Araneae, predators 11440  
Cerambycidae 9370  
Hymenoptera 11459  
Lepidoptera 9355
- Baits**  
control, *Acalymma vittatum*, melons 9822  
effects, Chrysomelidae 4536
- Baizongia pistaciae**  
*Pistacia palaestina*  
galls 5568  
Israel 5568
- Bajcaridris**, taxonomy, new genus 1817
- Bajra** (see *Pennisetum americanum*)
- Balanites aegyptiaca**  
extracts, molluscicidal properties 801  
*Schistocerca gregaria*, West Africa 8468
- Balanus amphitrite**, insecticides, effects 10586
- Balclutha hortensis**, groundnuts, resistance 7872
- Balsam fir** (see *Abies balsamea*)
- Balsamorhiza sagittata**, extracts, effects, Coleoptera 10053
- Baltic Sea**  
cod liver oil, pesticide residues 3360, 3367  
fishes, pesticide residues 461
- Bamboos** (see also *Bambusa*)  
*Allonychus wuyinicus*, Fujian 9050  
insect pests, Thailand 11008
- Bambusa** (see also *Bamboos*)  
*Nipponaclerda leptodermis*, Anhui 11081
- Bambusa multiplex**  
*Lepidomyctides nagaii*, South East Asia 6836  
*Pseudoregma bambucicola*, Kyushu 10378  
*Pseudoregma koshunensis*, Japan 3924
- Banana bunchy top virus**, vectors,  
*Pentalonia nigronervosa*, Musa 7489
- Bananas** (*Musa paradisiaca*)  
arthropod pests, Egypt 3550  
*Bemisia tabaci*, Mexico 8779  
*Coleoscyrus kifayati*, Pakistan 6415  
*Cosmopolites sordidus* 4583  
Cameroon 6676  
Costa Rica 8780  
damage 662  
Kenya 662, 5550, 7841  
resistance 9881  
Venezuela 1564  
Zaire 661  
Curculionidae, Costa Rica 8781  
Drosophilidae, Honshu 6038  
*Erionota thrax*, Asia 1563  
fields, *Thyreoscephalus interocularis*, Kenya 5550  
*Gaurax perreirai*, Hawaii 5551  
insecticides, residues 11888  
*Metamasius hemipterus*, Florida 2239  
*Nacoleia octasema*, Queensland 1860  
pest control, books 5773  
*Pheidole megacephala*, Cuba 4642  
plantations  
*Dactylosternum abdominale*, Kenya 10874  
Formicidae, Costa Rica 3608  
*Hololepta quadridentata*, Venezuela 1564  
*Rhynchophorus palmarum* 8254  
*Stephanitis typticus*, Gujarat 11889
- Bancol** (see *Bensultap*)
- Bangasternus orientalis**  
biotypes 826  
*Centaurea*, Greece 826
- Bangladesh**  
aquatic organisms, insecticide residues 11647  
*Artocarpus heterophyllus*, *Icerya aegyptiaca* 5393  
aubergines, *Leucinodes orbonalis* 3526  
*Berginus maindroni* 3245  
cabbages, Lepidoptera 1509  
Coccinellidae 3116  
cotton  
*Amrasca devastans* 1635, 8833  
natural enemies 5611  
fields, predatory arthropods 9947  
Homoptera 3614  
food plants, insect pests 5393  
*Gardenia florida*, *Planococcus citri* 5393  
Hemiptera 5393  
Lepidoptera 24  
millets, *Atherigona soccata* 5434  
Odonata 11372  
pesticides, usage 6344  
*Phaseolus*, *Aphis craccivora*, natural enemies 8462  
rice  
fields, Araneae 3462  
*Scirpophaga incertulas* 7700  
*Thaia oryzivora* 3463  
*Ricinocarpodendron polystachyum* 4794  
sugarcane, *Polyocha depressella* 6721  
wheat, commodities, *Sitophilus oryzae* 3705
- Banksia prionotes**, commodities, insect pests 5746
- Baptisia leucantha**  
*Apion rostrum*  
damage 6141  
Illinois 6141
- Barathra brassicae** (see *Mamestra brassicae*)
- Barbarea vulgaris**  
extracts, effects, *Pieris* 4507  
*Pieris* 4507  
*Plutella xylostella*, North America 5495
- Baridobius**, taxonomy, new genus 1815
- Baridobius primulus**, taxonomy, new species 1815
- Barioscapus cordiae**  
*Cordia*, Indian Punjab 2731  
parasitoids 2731
- Baris coerulescens**  
ecology, population dynamics 10896  
rape, France 10896
- Barium polysulfide**, control, *Phytoptus avelanae*, hazelnuts 4613
- Barley** (*Hordeum vulgare*)  
Acrididae 3422  
Aphididae 548, 4510, 6411, 8624  
damage 9688  
Europe 2405  
Germany 1420, 1423, 3423  
resistance 3423, 9663  
Aphidoidea, resistance 2417  
*Brevicoryne brassicae*, interactions 4510  
commodities  
*Acarus siro*, Italy 6879  
arthropod pests 850  
insects, Montana 5741  
*Tribolium confusum* 12077  
*Delia coarctata*, UK 534  
*Diuraphis noxia*  
resistance 2418, 5413  
Washington 5412  
fields  
arthropods  
Denmark 5712  
Germany 5401  
beneficial insects, Germany 6451  
Carabidae  
Alberta 8375  
Finland 3203, 7644, 11562  
UK 6035, 6452, 7673  
Coleoptera, Germany 10702  
insects, Syria 3426  
Linyphiidae, UK 10701  
*Scymnus fenderi*, Washington 5412  
habitats, Carabidae, Alberta 1214
- Hydrellia griseola**  
economic thresholds 9689  
Gansu 9689  
yield losses 9689  
insect pests  
damage 4398  
Estonia 10695  
Georgia 4398, 9670  
Germany 3424  
resistance 2407  
Syria 11714
- Mayetiola destructor**  
damage 9667  
resistance 9690  
Tunisia 9667  
USA 9690
- Mayetiola hordei**, Spain 6429  
pest resistance 6283  
pesticides, residues 578  
*Porphyrophora tritici*, Syria 11726
- Rhopalosiphum maidis**  
Haryana 9691  
resistance 9691
- Rhopalosiphum padi** 1475, 2419, 4410, 6412, 8639  
Czech Republic 6422  
Finland 3203  
France 7640, 10699  
Ontario 6007  
resistance 6453  
Sweden 6453  
varietal susceptibility 1431
- Schizaphis graminum**  
damage 3435, 6424  
Idaho 6424
- Sitobion avenae** 4394  
Germany 7642-7643  
soil, Collembola 10254  
Thysanoptera, North Carolina 9279  
*Tipula* 8640  
economic thresholds 8640  
*Toya propinqua*, damage 11727
- Barley straw**, insecticides, residues 3369



**Barley yellow dwarf luteovirus**

vectors  
Aphididae 548, 1423, 2405, 3423,  
10453, 10687, 11713  
wheat 2412  
Aphidoidea 6264  
books 8047  
*Myzus persicae* 7311  
*Rhopalosiphum padi* 544, 2419, 3436,  
9692, 10699, 10704  
*Sitobion avenae* 7642-7643

**Baronia brevicornis**, morphology 944

**Baroniinae**, anatomy 908

**Barypus**, taxonomy 16

**Baryscapus erynniae**

hosts, *Erynniopsis antennata* 4711

*Ulmus*, California 4711

**Baryscapus galactopus**

cold resistance 8392

hosts, *Cotesia glomerata* 8392

UK 8392

**Baryscapus servadeii**

hosts, *Thaumetopoea wilkinsoni* 1696

morphology 1696

*Pinus*, forests, Israel 1696

**Barytelphusa guerini**, insecticides, effects

11635

**Basella alba**, *Megymenum brevicorne*,

Malaysia 3531

**BASF 228743**, effects, *Schistocerca gregaria*

7621

**Basidiobolus ranarum**

biochemistry 3261

morphology 3261

**Basidiomycotina**, *Dendroctonus frontalis*,

interactions 9347

**Basil** (see *Ocimum basilicum*)

**Basilarchia archippus**

biochemistry, composition 11231

*Danaus gilippus*, interactions 4025

*Limnitis arthemis*, hybridization 3896,

7146, 7187

morphology, mimicry 11231

USA 7146, 7187, 11231

**Basileura osornoensis**

*Nothofagus dombeyi*, Chile 1806

taxonomy, new species 1806

**Basitrolaimus indicus**, insecticides, effects

9749

**Bassaris itea**, *Parietaria*, Australia 1746

**Bassia latifolia**, oils, effects, *Aleulobus*

*barodensis* 3596

**Bassus**, taxonomy, synonyms 2842

**Bassus epinotiae**

*Abies grandis*, forests, UK 2842

hosts, *Epinotia fraternana* 2842

taxonomy, new species 2842

**Basudin** (see Diazinon)

**Bathrips melanocornis**

ecology, population dynamics 9860

mulberries, West Bengal 9860

**Bathycoelia rodhaini**, pathogens 10434

**Bathyphantes gracilis**

barley, fields, UK 10701

biology, behaviour 3223, 7336, 10701

fields

Belgium 3223

UK 7336

maize, fields, Belgium 5418

prey, Aphididae 10701

**Bathyplectes anurus**

hosts, *Hypera postica* 4460, 8682

lucerne

fields

Minnesota 4460

West Virginia 8682

parasitoids 8682

**Bathyplectes curculionis**

hosts, *Hypera postica* 4460, 8682

lucerne

fields

Minnesota 4460

West Virginia 8682

parasitoids 8682

**Battus**, evolution 9110

**Battus philenor**

*Aristolochia macrophylla*, USA 10010

biology, behaviour 10010

morphology, larvae 6993

plant extracts, effects 10010

**Bauhinia variegata**

*Brevipalpus phoenicis*, resistance 4391

*Camponotus*, pollination 4754

*Didia*, Pakistan 8850

insects, Sao Paulo 4754

**Bavistin** (see Carbendazim)

**Baythroid** (see Cyfluthrin)

**Bdellidae**

coffee, habitats, Queensland 5596

prey, *Pyrhalta viburni* 12027

*Viburnum tinus*, habitats, Italy 12027

**Bean common mosaic potyvirus**, vectors,

Aphididae 10451

**Bean pod mottle comovirus**, vectors, *Epi-*

*lachna varivestis* 6543

**Beans**

commodities, insect pests, Costa Rica

3704

fields, *Amitus fuscipennis*, Colombia

10279

habitats, predators, Italy 5174

insect pests, Hungary 2733

pesticides, residues 468

**Beans (Phaseolus)** (see *Phaseolus*)

**Beauveria**

control, *Leptopharsa gibbicarina*, oil

palms 4623

hosts

*Neoleucinodes elegantalis* 3565

*Nisaga simplex* 11745

taxonomy 4157

**Beauveria alba**, hosts, *Spodoptera littoralis*

10420

**Beauveria bassiana**

bioassays 7391

biochemistry 8436

chemical composition 5211

enzymes 4179, 5232, 6226

metabolism 8416

nutrition 10432

toxins 11530

biology, strains 10422

conidia, proteins 8440

control

*Chalcodermus bimaculatus*, cowpeas

7745

chemical control 3258

Curculionidae, bananas 8781

*Cylas formicarius*, sweet potatoes 612

*Hypothenemus hampei*, coffee 6728

insect pests, greenhouse crops 2529

*Monochamus alternatus*

*Pinus* 2694

*Pinus thunbergii* 7952

*Ostrinia nubilalis*, maize 2435, 6460

*Plutella xylostella*, evaluation 1258

*Psylliodes chrysocephala*, evaluation

3291

culture techniques 372, 1258, 8414,

11508

disinfectants, effects 9468

effects

*Menidia beryllina* 9599

*Palaemonetes pugio* 8410

formulations 2435, 9481

fungicides, effects 11477

genetics, ribosomal DNA 4161

hosts

*Acalolepta mixta* 11873

Acrididae 7328

*Anastrepha fraterculus* 4202

*Atteva fabriciella* 2673, 11514

*Bemisia argentifolii* 8443

*Bombyx mori* 1237, 3258, 7483

*Cephalcia isschikii* 8919

*Coptotermes formosanus* 9474

*Cosmopolites sordidus* 7487, 8780

*Cylas formicarius* 612

*Diabrotica speciosa* 8332

*Diatraea saccharalis* 5232

*Diadispia armigera* 5226

*Diuraphis noxia* 6421

*Eurhizococcus brasiliensis* 4203

*Eutectona machaeralis* 3630

Formicidae 9495

*Galleria mellonella* 8420

*Helicoverpa armigera* 3256

*Hoplochelus marginalis* 4161

*Hyblaea pueria* 3630

*Hypothenemus hampei* 3600, 7391

*Hypsipyla robusta* 1676

**Beauveria bassiana** cont.

hosts cont.

insect pests 5218

insects 8436

Lepidoptera 6226

*Loxa* 9475

*Lytta nuttalli* 5218

*Melanoplus sanguinipes* 4145, 4179,

9481, 9599, 10431

*Metamasius callizona* 5385

*Myzus persicae* 4175

*Ocnogyna baetica* 330

*Odontotermes obesus* 6243

*Phyllotreta cruciferae* 10897

*Popillia japonica* 3279

Psychidae 6708

*Psylliodes chrysocephala* 3291

*Quadriclcarifera punctatella* 9478

Scarabaeidae 10441

*Solenopsis invicta* 1190

*Spodoptera exigua* 375-376, 4159,

7447

Tenebrionidae 5396

mixtures, control, *Myllocerinus*

*aurolineatus*, tea 9933

pest control 10468

pesticides, toxicity 5247

physiology 3264, 7447

proteins 11507

protoplasts, fusion 8414

radiation, effects 3263

reviews 6221

solar heating, effects 7483

storage 9495, 9501

tillage, effects 2485

toxins, effects, *Helicoverpa armigera*

11475

viability, testing 10447

**Beauveria brongniartii**

biochemistry, enzymes 2169, 5232

control, *Premnotrypes*, potatoes, evalua-

tion 8709

ecology 3259

effects, plants 3259

enzymes 11506

genetics

DNA 11504

ribosomal DNA 4161

hosts

*Diatraea saccharalis* 5232

*Hoplochelus marginalis* 4161, 11504

*Melolontha hippocastani* 11506

*Melolontha melolontha* 1969, 2169

**Beauveria sulfurescens**

toxins

effects

*Galleria mellonella* 4195, 4200

Noctuidae, cell lines 4200

**Bedding plants**

books 6920

pest control 6920

**Bedellia somnulentella**, *Pharbitis purpurea*

8098

**Beech** (see *Fagus*; *Nothofagus*)

**Bees** (see Apidae)

**Beet mild yellowing luteovirus** (see Beet

western yellows luteovirus)

**Beet necrotic yellow vein virus**, vectors,

Aphididae 2610

**Beet western yellows luteovirus**

vectors

Aphididae 2610

*Brevicoryne brassicae* 9914

**Beetroots** (*Beta vulgaris*)

*Agrotis segetum*, UK 6457

insect pests, France 1497

*Liriomyza huidobrensis*, Spain 6571

*Systema argentinensis*, Argentina 182

**Beets** (see Beetroots; Mangolds; Spinach

beets; Sugarbeet)

**Begonia**, *Bemisia tabaci*, Netherlands 4759

**Belarus**

grain legumes, Aphididae 10769

integrated pest management 6915

potatoes, *Leptinotarsa decemlineata*

11794

**Belate** (see Benomyl)

**Belgium**

Agromyzidae 2025

cauliflowers

*Delia radicum* 11807



**Belgium cont.**

- cauliflowers cont.
- Noctuidae 11809
- Plutella xylostella* 11808
- celeriac, reports 2790
- cereal grains, insect pests 10035
- chicory, *Napomyza cichorii* 8730
- faba beans
  - Aphis fabae* 7734
  - fields, predatory insects 7734
- Fagus sylvatica*, *Phyllaphis fagi* 9973
- fields
  - Araneae 3223
  - Carabidae 203
- fruits, integrated pest management 1534
- Gastrophysa viridula* 3860
- insects 9413
- leeks
  - Thrips tabaci* 616
  - Thysanoptera 10795
- parsley, Aphididae 8965
- Phaseolus vulgaris*
  - Delia platura* 2789, 2791
  - reports 2789, 2791
- Phragmites australis*, *Lipara lucens* 7997
- Porcellio scaber* 1306
- Quercus*
  - arthropods 11988
  - Operophtera brumata* 4696
- Simplocaria semistriata*, pathogens 2154
- sugarbeet, Aphididae 698

**Belidae, taxonomy, books 4816****Belize**

- mangroves, insect pests 722
- Phycitinae 4834

**Bellamyia bengalensis, physiology, digestive system 3249****Bellamyia dissimilis, insecticides, effects 5321****Bellis perennis, Myzus persicae 788****Belomicrus**

- North America 11115
- prey, insects 11115
- taxonomy 11115

**Bembidiina**

- distribution, New Zealand 1159
- taxonomy 1159

**Bembidiini, distribution, Norway 1208****Bembidion**

- biology, behaviour 4399
- cereals, fields, Switzerland 4399
- cultural methods, effects 4399
- ecology, population dynamics 4399
- field crops, UK 7566
- insecticides, effects 7566
- monitoring, traps 4399
- pathogens 1252

**Bembidion femoratum**

- biology, behaviour 203
- fields, Belgium 203

**Bembidion guttula**

- barley, fields, Finland 3203
- cereals, fields, Finland 7644
- green manures, effects 7644
- monitoring, traps 10693
- prey, *Rhopalosiphum padi* 3203
- wheat, fields, Finland 10693

**Bembidion lampros**

- Brassica, fields, UK 5493
- cereals, fields, Germany 6425
- fields, Sweden 586
- insecticides, effects 7660
- prey
  - Acyrtosiphon pisum* 586
  - Delia radicum* 5493
- insects 1103

**Bembidion musae, distribution, New Zealand 1159****Bembidion obtusum**

- insecticides
  - effects 7660
  - toxicity 4308, 10609
- UK 4308

**Bembidion properans**

- monitoring, traps 10693
- wheat, fields, Finland 10693

**Bembidion quadrimaculatum**

- barley, fields, Finland 3203
- biology, behaviour 203
- fields, Belgium 203
- prey, *Rhopalosiphum padi* 3203

**Bembidion quadrimaculatum oppositum**

- monitoring, traps 5533
- raspberries, fields, Quebec 5533

**Bembidion stewartense**

- distribution, New Zealand 1159
- taxonomy 1159

**Bembidion tekapoense, distribution, New Zealand 1159****Bembidion tetracolum**

- biology, behaviour 203
- fields, Belgium 203
- prey
  - insects 1103

**Tenebrio molitor 5166****rearing techniques 5166****Bembix rostrata, physiology, thermoregulation 7026****Bembix zonata, physiology, thermoregulation 7026****Bemisia**

- biology 2815
- conferences 2815
- control 2815
- culinary herbs, Florida 6832

**Bemisia argentifolii**

- biological control agents, evaluation 4747, 6732, 8942
- biology 10978

**behaviour 9823, 10481, 10794****Brassica oleracea, resistance 10806****control 8450****biological control 10817****cultural control 10913****cotton****Arizona 10913****California 6732****resistance 10913****crops, California 10794****food plants 9823****greenhouse crops****California 8450****Nova Scotia 8948****groundnuts****Florida 10901****resistance 10901****honeydew 2918****insecticides****effects 6606****assays 11655****Lycopersicon pennellii, resistance 10481****parasitoids 8942, 11798****pathogens 8443****physiology, secretions 2918****plant extracts, toxicity 11574****plant pathogens, transmission 3282****poinsettias 4747, 8942, 10978****predators 8942****sweet potatoes 11798****tomatoes 6606, 11574****damage 10817****Bemisia tabaci****Andhra Pradesh 5297****aubergines, Dominican Republic 11831****bananas, Mexico 8779****biochemistry****enzymes 2911, 4915, 5616, 7046, 10833****lipids 3867, 5936, 7101****biological control agents, evaluation 6175****biology 187, 5030, 9664****behaviour 1632, 9823, 10004****biotypes 7046****development 10819****environmental factors 2717, 11936-11937****migration 9306****nutrition 1632****oviposition 3988****phenology 11796****starvation 10354****biotypes 4207, 9267****Brassica oleracea, resistance 2524****Capsicum, Mexico 10830****cassava, Cote d'Ivoire 11796****Chrysanthemum coronarium****damage 12036****Honshu 12036****Colombia 175****control 630, 2529, 4220, 10830, 11708, 11831, 11835****Bemisia tabaci cont.**

- control cont.
- biological control 1716, 4659, 7597, 7974, 7996, 12033
- chemical control 628, 1061, 1473, 1523, 1631, 3615, 4521, 4650, 4658, 4666, 4750, 5612, 6696, 7896, 8695, 8737-8738, 8742, 9771, 9956, 10825, 10835, 11774, 11789
- cultural control 4664, 10821, 11822
- integrated control 627, 4759, 6175
- physical control 626
- Costa Rica 5030
- cotton 1632, 4666, 6739, 10922
  - Arizona 706, 712
  - Bangladesh 3614
  - California 4659, 8841
  - damage 5612
  - Delhi 1631, 7896
  - Ethiopia 4658
  - India 714, 7894
  - Iran 3615
  - Israel 4218, 5612, 5616, 9956
  - Karnataka 4650-4651
  - Maharashtra 11972
  - resistance 706, 2629, 3614, 11972
  - Sudan 4668
- cowpeas
  - Egypt 9771
  - Pakistan 2498
- cropping systems, effects 6595
- crops, Israel 4263
- cucumbers, Japan 10835
- Cucurbita pepo*
  - Florida 5510, 11835
  - yield losses 5510
- distribution 4209
  - Netherlands 4759
- ecology
  - distribution 4538, 10922
  - population dynamics 633, 714, 2534, 4542, 6529
- economic thresholds 4668
- Euphorbia pulcherrima* 4750, 4760
- Germany 1716
- fertilizers, effects 10004
- field crops, California 4664
- food plants 187, 9664, 9823
  - California 6595
  - Costa Rica 629
- genetics
  - biotypes 5003
  - gene frequency 175
- grain legumes, Indonesia 6529
- greenhouse crops 1061, 3988
- Mediterranean Region 11447
- Netherlands 4759
- groundnuts
  - Delhi 9769-9770, 11936-11937
  - Florida 4631
  - resistance 4631
- growth regulators
  - resistance 4263
  - toxicity 9649
- insecticides
  - effects 4542, 5297, 7528
  - pathogenicity 1261
  - resistance 3335, 4217-4218, 5616, 6323, 9561, 9956, 10833, 11587
  - toxicity 4274, 6739, 7541, 11574
- irrigation, effects 706
- Israel 9561
- lettuces, secretions, effects 9807
- marrows
  - damage 8747
  - Hawaii 8747
- melons
  - Arizona 4538, 4542, 9819
  - Australia 10833
  - California 6696
  - resistance 6622
- Middle East 11708
- monitoring 9766
  - traps 4651, 5468, 7863
- morphology 187
  - mouthparts 9126
- okras, Assam 2541
- ornamental plants 2717, 7974



- Bemisia tabaci** *cont.*  
parasitoids 4317, 4631, 4760, 5612, 6659, 6696, 7332, 7996, 11449, 11972  
collection 11449  
pathogens 6246, 7421  
*Phaseolus vulgaris*  
Cuba 8695  
varietal susceptibility 11772  
plant extracts, effects 8487, 10757  
plant pathogens 5510  
transmission 626, 631, 2498, 2530, 2534, 2541, 2803, 4207, 4209, 5468, 5470, 6595, 6602-6603, 6696, 7473, 7477, 7782, 7792, 10826, 10830, 11789, 11796  
reviews 10825  
poinsettias 7996, 10004  
Italy 12033  
predators 712, 1230, 3133, 3214, 8241, 11447  
reviews 4091  
reviews 11707-11708  
row covers, effects 8747  
sampling 8841, 9819  
Solanaceae 2530  
soybeans 10757  
Andhra Pradesh 1473  
sunflowers, Tamil Nadu 7863  
*Syzygium cumini*, Uttar Pradesh 9662  
tomatoes 6602-6603, 7782, 7792, 10819, 10825-10826, 11822  
Costa Rica 626-628, 630  
damage 11825  
Dominican Republic 1523  
Egypt 633, 8737-8738  
Guatemala 8742  
Japan 10821  
Pakistan 631  
varietal reactions 633  
Venezuela 2534, 4521  
UK 4220  
ultraviolet radiation, effects 10821  
vegetables, Florida 11774  
*Verticillium lecanii*, toxins, effects 1260  
*Vigna radiata* 5468  
Assam 9766, 11789  
India 5470  
Uttar Pradesh 10780  
weeds, Mexico 8779
- Bendiocarb**  
control, *Cyclocephala hirta*, lawns and turf 791  
effects  
fishes 1352  
*Stethopachys formosa* 12039  
resistance, *Frankliniella occidentalis* 11590  
toxicity  
*Maladera matrida* 8511  
*Popillia japonica* 4265
- Beneficial arthropods**  
botanical insecticides, effects 11565  
ecology, habitats 879  
ground cover plants, habitats, Guangdong 668  
insecticides  
effects 11570  
nontarget effects 11550  
orchards, conferences 879  
pesticides, effects 4282  
rice, fields, Kyushu 8660
- Beneficial insects**  
cereals, fields, Germany 1125  
ecology 3095  
fields, Kenya 6427  
insecticides  
effects 11456  
resistance, models 9577  
melons, habitats, France 9821  
monitoring, traps 4447  
pesticide resistance 1319  
*Picea abies*, habitats, Norway 7959  
rice, fields, China 10728  
tea, plantations, China 8821
- Benfuracarb**  
application 4272, 10527  
chemistry 10527  
control  
arthropod pests, sugarbeet 11954  
*Dicladispa armigera*, rice 7707
- Benfuracarb** *cont.*  
control *cont.*  
*Holotrichia serrata*, *Tectona grandis* 8891  
effects  
environment 10527  
*Somaticus* 4415  
formulations 11572  
registration, Poland 10527  
toxicity, *Nilaparvata lugens* 4272
- Bengal gram** (see Chickpeas)
- Benin**  
Acrididae 7328  
*Anagyrus mangicola* 5164  
cassava  
*Mononychellus progresivus* 4497  
*Schistocerca gregaria* 11797  
*Zonocerus variegatus* 10791  
cowpeas, insect pests 6547, 6549  
*Eichhornia crassipes*, natural enemies 8984  
*Gyransoidea tebygi* 5164  
maize, *Sesamia calamistis*, parasitoids 10714  
mangoes  
*Rastrococcus invadens* 11904  
parasitoids 10884  
*Zonocerus variegatus* 280
- Benlate** (see Benomyl)
- Benniseed** (see Sesame)
- Benomyl**  
nontarget effects  
apples, mites 11848  
*Drosophila melanogaster* 1348  
*Porcellionides pruinosus*, assessment 11605  
residues, meat, determination 1763
- Bensultap**, control, *Oulema*, cereals 7647
- Bentazone**, effects, *Spodoptera littoralis* 2259
- Benthos**, pesticides, residues 5352
- Bentonite**, insecticides, sorption 6391
- Benzaldehyde**  
mixtures  
attractants, *Anomala octiescostata* 2766  
effects, *Schistocerca gregaria* 9179
- Benzoic acid**  
control, *Exorista bombycis*, silk 5730  
effects  
Coleoptera 9558  
entomopathogens 9468
- Benzoximate**  
control, *Panonychus citri*, *Ziziphus mauritiana* 7859  
formulations, water hardness, effects 3324
- Benzoylnitrile**, mixtures, effects, *Schistocerca gregaria* 9179
- 2-Benzoyloxyphenylacetoneitrile**, mixtures, effects, *Schistocerca gregaria* 9179
- Benzoylphenylureas**  
control, insect pests, forest trees 1644  
derivatives, toxicity, *Chilo suppressalis* 7553  
effects, insect pests 7538  
resistance, *Homona magnanima* 11579  
toxicity  
*Chilo suppressalis* 7553  
*Eulophus pennicornis* 9614
- Benzyl acetate**  
attractants  
*Anaglyptus subfasciatus* 4372  
Cerambycidae 6801  
Formicidae 1197
- Benzyl alcohol**  
mixtures  
attractants, *Anomala octiescostata* 2766  
effects, *Schistocerca gregaria* 9179
- Benzyl benzoate**, mixtures, attractants, *Anomala octiescostata* 2766
- Benzyl-1,3-benzodioxole derivatives**, effects, Tephritidae, reviews 177
- 1-Benzyl-5-((E)-2,6-dimethyl-1,5-heptadienyl)imidazole**, effects, *Ostrinia nubilalis* 7622
- Bephratelloides**  
*Annona*  
Dominican Republic 11908  
South America 11908
- Bephratelloides** *cont.*  
ecology, population dynamics 11908
- Bephratelloides limai**, Annonaceae, Amazonas 8794
- Bephratelloides pomorum**  
*Annona muricata*, Ceara 4599  
control, physical control 4599
- Bergapten**, effects, *Papilio polyxenes* 9158
- Berginus maindroni**  
distribution, Bangladesh 3245  
*Kerria lacca*, interactions 3245
- Bermuda**, Diptera 6103
- Bermuda grass** (see *Cynodon dactylon*)
- Beskia aelops**  
hosts  
*Oebalus ornatus* 9726  
*Oebalus ypsilonigriseus* 4439  
rice  
fields  
Colombia 9726  
Rio Grande do Sul 4439
- Beta**, *Aphis fabae*, Hokkaido 9366
- Beta vulgaris** (see Beetroots; Mangolds; Spinach beets)
- Beta vulgaris var. saccharifera** (see Sugarbeet)
- Betasyrphus serarius**  
biology, life history 8824  
ecology, population dynamics 8824  
prey, *Toxoptera aurantii* 8824  
tea, plantations, India 8824
- Betel** (see *Piper betle*)
- Bethylinae**, taxonomy 11111
- Betula**  
*Elasmucha grisea* 11985  
insect pests 9029  
Sweden 4691  
Lepidoptera, Quebec 4692  
*Lymantria dispar* 8866  
*Papilio canadensis*, USA 3634  
*Psallus falleni*, Nei Menggu 10314  
*Salebriopsis albicilla*, Spain 4685
- Betula alba**  
*Eriocrania*, Finland 8867  
*Eriocrania haworthi*, Finland 8867
- Betula ermanii**, *Heterarthrus betulae*, Honshu 731
- Betula nana**  
insect pests  
Finland 6750  
Scandinavia 6745
- Betula papyrifera**  
*Acrobasis betulella*, Quebec 737  
extracts, effects, *Lymantria dispar* 736  
habitats, *Formica glacialis*, New York 3954  
insect pests 5636  
*Lymantria dispar* 3627  
resistance 736  
Saturniidae 10936  
Tenthredinidae, New York 3954
- Betula pendula**  
*Coleophora serrata* 738  
*Eriocrania* 738  
Finland 4693, 8868  
extracts, metabolism, *Chrysomela lapponica* 1657  
habitats, *Formica*, Finland 8868  
insect pests, Finland 721  
Phratora 1655  
*Polydrusus ruficornis*, Russia 1659  
*Polygonia c-album* 530, 4387
- Betula pubescens**  
*Coleophora serrata* 738  
*Dineura virididorsata*, Finland 1658  
*Eriocrania* 738  
Finland 4693, 8868  
habitats, *Formica*, Finland 8868  
insect pests, Finland 721  
Phratora 1655  
*Polydrusus ruficornis*, Russia 1659  
*Polygonia c-album* 530, 4387
- Betula pubescens subsp. tortuosa**  
*Epirrita autumnata*  
damage 11984  
Finland 11984
- Betula tortuosa**  
insect pests  
Finland 6750  
Scandinavia 6745
- Betulin**, effects, *Anthonomus grandis* 1404
- BHC** (see HCH)
- $\gamma$ -BHC** (see Lindane)
- Bhindi** (see Okras)



**Bhutan**

- Coleoptera 6942
- Lepidoptera 24

**Bi 58 (see Dimethoate)****Bibio**

- distribution, Sweden 10116
- taxonomy 10116

**Bibio varipes**

- ecology 12008
- Pinopsida, forests, soil, Italy 12008

**Bibionidae**

- distribution, Europe 10309
- evolution 928
- Irish Republic 268
- sampling 268
- taxonomy 11123
- collections 1835

**Bibliographies**

- Arachnida 11059-11060
- Blissus leucopertus* 2441
- Coleoptera 11055
- Diptera 11056
- Hemiptera 11058
- Hymenoptera 11057
- Ichneumonidae 300
- insects 11061
- taxonomy 40
- Lamiaceae 2819
- Lepidoptera 11136
- Miridae 10745
- pesticidal plants 2819
- Phasmida 6140
- Schistocerca gregaria* 9047
- Tessaratomidae, taxonomy 46

**Bicuculline**, effects, *Manduca sexta* 113**Bicyclus**

- biology, environmental factors 238
- Malawi 238

**Bicyclus anynana**

- genetics, genetic variation 7116
- morphology
- wings 9122
- damage 9121
- predators 9418

**Bidens**, Mexico 6840**Bidens mosaic potyvirus**, vectors, *Myzus persicae* 6544**Bidens pilosa**, pollen, *Euseius mesembrinus* 3220**Bidera (see also Heterodera)****Bifenthrin**

- chemistry 11570
- control

*Amrasca devastans*, cotton 5611

arthropod pests

crops 11706

pastures 11706

strawberries 11868

insect pests

cowpeas 1488, 8704

okras 6624

*Pinus* 6782

*Lygus hesperus*, strawberries 8772-

8773

*Tomicus piniperda*, *Pinus sylvestris*

9991

effects

*Bemisia argentifolii* 6606

assays 11655

*Bemisia tabaci* 4542, 7528

beneficial arthropods 11570

*Gallus gallus* 5338

*Neoseiulus fallacis* 3344

*Oligota jageli* 5523

mixtures

control

*Bemisia tabaci*, tomatoes 4521

*Tomicus piniperda* 9991

toxicity, *Tetranychus urticae* 7534

nontarget effects, natural enemies 5611

residues

determination 4806

foods, analytical methods 10331

okras 6624

synthesis 4236

resistance

*Bemisia tabaci* 5616, 11587

Hemiptera 7945

*Spodoptera exigua* 6327

*Tribolium castaneum* 2280

**Bifenthrin cont.**

toxicity

*Aphis gossypii* 2401

arthropod pests 11570

*Bemisia tabaci* 11574

Braconidae 10587

*Heliothis virescens* 4268

*Tetranychus urticae* 7534

usage 11570

with dicofol, control, arthropod pests, grapes 1557

**Bignoniaceae**, Cerambycidae 3530**Bigonicheta setipennis (see Triarthria setipennis)****Bilberries (see Vaccinium)****Bilderdykia convolvulus (see Fallopia convolvulus)****Binodoxys**, taxonomy 5398**Binodoxys aculephae**, taxonomy, synonyms, *Trioxys angelicae* 5398**Binodoxys angelicae (see Trioxys angelicae)****Binodoxys brevicornis**, hosts, Aphididae 5398**Biochemistry**, endocrine system 137**Biocontrol (see Biological control)****Biological control**

Asia 11544

Australia 11544

conferences 8032

Florida, books 6924

greenhouse crops 5258

Poland 1280

India, reports 3716

legislation, Sweden 11543

Oceania 11544

pests, conferences 3722-3723

reviews 2214

rice, books 12090

taxonomy 384

UK, reports 1784

arthropods 3290, 3292-3293, 11420

(see also Sterile insect release and individual pathogens)

books 9044

history 6268

Israel 8455

reviews 1278, 3289, 6267

Turkey 1277

Acari, pastures 11754-11755

*Acizzia uncatoides*, ornamental woody plants 8943

Acrididae 7427

Agromyzidae 2212

*Agrotis segetum*, field crops 6457

*Aleurothrix floccosus*, *Citrus* 3555

Aleyrodidae, *Euphorbia pulcherrima* 1716

*Amsacta albistriga*, groundnuts 5580

*Anastrepha suspensa*, fruits 1778

*Anomala cuprea*, sweet potatoes 8718

*Anticarsia gemmatilis*, soyabeans 1256, 11767

*Aonidiella citrina*, *Citrus* 11899

Aphididae

lettuces 11817

ornamental plants 8940

pecans 4609

Aphidoidea 392

tea 9936

*Aphis gossypii*

cotton 715

cucumbers 10832

melons 9821

apples 4553

arthropod pests 5257, 6273

*Citrus* 11900

*Gerbera jamesonii* 1714

greenhouse crops 1281, 1286, 10990

horticultural crops 10465

orchards 1531

strawberries 10863

vineyards 1531

*Bactrocera dorsalis*, guavas 5565, 8795

*Bemisia argentifolii*, tomatoes 10817

*Bemisia tabaci*

cotton 4659

ornamental plants 7974

poinsettias 7996, 12033

*Biprorulus bibax*, lemons 664

**Biological control cont.**

*Bradysia*, ornamental plants 793

*Centaurea solstitialis* 2750

*Cephalcia arvensis*, *Picea abies* 5677

*Chalcodermus bimaculatus*, cowpeas 7745

*Chilo partellus* 1419

sorghum 3449

*Chilo sacchariphagus indicus*, sugarcane 3595

*Choristoneura fumiferana*

*Abies balsamea* 7960

Pinopsida 756

*Choristoneura occidentalis*, Pinopsida 4720

*Chortocetes terminifera* 9527

*Circulifer tenellus*, sugarbeet 5802

Coccidae 11091

*Cosmopolites sordidus* 2223

*Costelytra zealandica*

*Lolium* 6514

pastures 6511

Curculionidae, bananas 8781

*Cyclocephala hirta*, lawns and turf 791

*Cydia nigricana* 9526

*Cylas formicarius*, sweet potatoes 612, 2517, 4483

Delphacidae, rice 3460

*Dendroctonus micans*, *Picea* 770

*Diaphania hyalinata*, squashes 9824

*Diaphania nitidalis*, Cucurbitaceae 6616

Diaspididae 6695, 7350

*Citrus* 7815

*Diatraea saccharalis*, sugarcane

1610, 8817

*Diuraphis noxia*, wheat 8637, 11725

*Dryocosmus kuriphilus*, chestnuts 7860

*Ectropis obliqua* 9529

*Erinnyis ello*, cassava 10790

*Eulophus pennicornis* 9614

*Frankliniella occidentalis* 6180, 7486, 11541

fruit vegetables 625

*Helicoverpa armigera*

cotton 1484, 7892, 10912

tomatoes 1520

wheat 10694

*Helicoverpa zea*, sorghum 2191

Hemiptera, cucumbers 1525

*Hypothenemus hampei*, coffee 6728

*Inopus rubriceps*, sugarcane 1611

insect pests 531, 1199-1200, 2208,

7597, 8113, 9484

apples 10851

cardamoms 809

cereal grains 2772

*Citrus* 11903

coffee 3605

conferences 8033

economics, models 1275

forest trees 5625, 7901

grasses 11068

raspberries 3542

sweet potatoes 5482

tomatoes 2532

wheat 5259

Lepidoptera 388

Brussels sprouts 4515

medicinal plants 6821

tomatoes 4527

*Leptinotarsa decemlineata*

aubergines 6612

potatoes 6558, 9775-9776, 9783, 11794

*Leptopharsa gibbicarina* 719

oil palms 4623

*Liriomyza bryoniae*, greenhouse crops 11828

*Listronotus bonariensis* 2217, 6512

*Lobesia botrana*, grapes 3546

*Lycoriella*, mushrooms 6838

*Lycoriella mali*, mushrooms 813, 3683

*Lymantria dispar* 9382

forests 4210

parks 4684

*Quercus* 365, 2666, 5645



**Biological control cont.**

- Manduca quinquemaculata*, tobacco 702  
*Megaselia halterata*, mushrooms 7993  
*Monochamus alternatus*  
*Pinus* 2694  
*Pinus thunbergii* 7952  
*Mononychellus tanajoa* 2505-2513  
 conferences 2811  
 Noctuidae 10466  
   field crops 2404  
*Nystalea nyseus*, *Eucalyptus* 739  
*Operophtera brumata* 1831  
 reviews 9525  
*Ophiomyia*, *Phaseolus* 3499  
*Opisina arenosella*, coconuts 11927  
*Oryctes rhinoceros*  
   coconuts 1599, 8453  
   oil palms 3581  
*Ostrinia nubilalis*, maize 2435, 4424, 6459-6460, 9694, 10708-10709  
*Otiorynchus sulcatus* 10470  
   *Cyclamen* 7973  
   strawberries 4574  
*Panonychus ulmi*  
   apples 6650, 10850  
   fruits 11444  
*Parabemisia myricae* 7205  
*Citrus* 11895  
*Parlatoria oleae* 7870  
*Pentalonia nigronervosa*, *Musa* 7489  
*Phenacoccus manihoti*, cassava 1498, 6567  
*Phthorimaea operculella*, potatoes 5260  
*Phyllobius pomaceus*, strawberries 7830  
*Pieris brassicae*, cabbages 7777  
*Pieris rapae*, cabbages 7776  
*Planococcus citri*, *Citrus* 5555  
*Plutella xylostella*  
   *Brassica* 5495  
   Brussels sprouts 5491  
   cabbages 1504, 10803  
*Polyphagotarsonemus latus*, *Capsicum* 8746  
*Popillia japonica* 7717  
*Pseudococcidae* 8454  
*Pseudococcus* 9091  
*Pyrilla perpusilla*, sugarcane 3593-3594  
*Pyrrhalta luteola*, *Ulmus* 745, 4707-4708, 4711  
*Pyrrhalta viburni*, *Viburnum tinus* 12027  
*Rastrococcus invadens*, mangoes 10884  
 reviews 4212  
*Rhyacionia frustrana*, *Pinus caribaea* 1690  
*Scapteriscus*, lawns and turf 4756  
*Scarabaeidae*, lawns and turf 4755  
*Scirpophaga incertulas*, rice 4441  
*Selenaspidus articulatus* 7488  
*Sesamia nonagrioides* 6173  
*Sesidiidae*, *Cornus florida* 2675  
*Siphoninus phillyreae*, woody plants 11996  
*Spodoptera frugiperda* 8451  
   maize 6462-6463  
*Spodoptera litoralis*, cotton 5602  
*Spodoptera litura*  
   potatoes 1493  
   *Ricinus communis* 2600  
   tobacco 3609  
*Sylvicola cinctus* 389  
*Tagosodes orizicolus*, rice 11742  
*Tessaratomia papillosa*, subtropical tree fruits 11905  
*Tetranychus kanzawai*, grapes 5541  
*Tetranychus mcdanieli*, grapes 1558  
*Tetranychus pacificus*, grapes 11880  
*Tetranychus urticae*  
   hops 12049  
   raspberries 9852  
   strawberries 4573, 9859  
*Thecodiplosis japonensis*, *Pinus* 2705  
*Thrips*, *Capsicum* 6613  
*Tortricidae*, grapes 2569  
*Trialeurodes vaporariorum* 4219

**Biological control cont.**

- Trialeurodes vaporariorum* cont.  
   cucumbers 4544  
   fruit vegetables 11823  
   tomatoes 1518, 6607, 11826  
*Unaspis citri*, *Citrus* 7847  
*Zeuzera pyrina*, crops 2396  
*Zonocerus variegatus* 280  
   cassava 10791  
 Gastropoda 10467  
   *Deroceras reticulatum*  
     field crops 10807  
     wheat 546  
   Gastropoda, lettuce 10810  
   *Pomacea canaliculata* 12090  
     rice 12090  
 Mollusca, slugs, wheat 4405  
 plant pathogens, *Rhizoctonia solani*, sugarbeet 9928  
 weeds 531, 2218, 2756, 11033-11036  
   rangelands 11026  
   reviews 2763  
   *Acacia nilotica* 8011  
   *Ageratina adenophora* 822  
   *Ambrosia* 2763  
   *Ambrosia artemisiifolia* 5255  
   aquatic weeds 11016  
     rice 5724  
   *Carduus acanthoides* 6846  
   *Carduus nutans* 831  
   *Centaurea solstitialis* 8977  
   *Chromolaena odorata* 861, 2216, 11028  
   *Cirsium vulgare* 2754  
   *Cuscuta* 2757  
   *Eichhornia crassipes* 8984  
   *Elephantopus mollis* 11011  
   *Euphorbia esula* 11032  
   grasses 11027  
   *Lantana camara* 11446  
   *Mimosa invisa* 1752  
   *Orobancha* 8003, 8035  
     Egypt, reviews 8008  
     India 8007  
     reviews 8009  
   *Parthenium hysterophorus* 1748-1751, 3288, 5715, 6045, 8001  
   *Pteridium aquilinum* 830, 11031  
   *Salvinia molesta* 5720  
   *Senecio jacobaea* 1982, 3691  
   *Sida* 2758  
   *Solanum* 11029  
   *Solanum elaeagnifolium*, crops 8976  
   woody weeds 8978  
**Biological control agents**  
 Acrididae, evaluation 4213, 6144  
*Anthonomus grandis*, evaluation 7897  
 Aphididae, evaluation 6269  
*Aphis craccivora*  
   Bangladesh 8462  
   evaluation 8462, 8701  
*Aphis gossypii*, evaluation 4139, 9826  
 arthropod pests, evaluation 10469  
*Baccharis halimifolia*, evaluation 827, 5721  
*Bemisia argentifolii*, evaluation 4747, 6732, 8942  
*Bemisia tabaci*, evaluation 6175  
*Buddleja davidii*, evaluation 6069  
*Cacopsylla pyri*, evaluation 4565  
*Callosobruchus maculatus*, evaluation 5732  
*Carpophilus hemipterus*, evaluation 4214  
*Centaurea*, evaluation 828  
*Chromolaena odorata*, evaluation 3294  
*Chrysoperla externa*, evaluation 317  
 Cicadellidae, evaluation 3716  
*Cirsium arvense*, evaluation 6845  
*Cnaphalocrocis medinalis*, evaluation 570  
*Deroceras reticulatum*, evaluation 4136  
 Diptera, evaluation 7415  
*Dociostaurus maroccanus*, evaluation 2173  
*Echinochloa*, evaluation 824  
*Echium plantagineum*, evaluation 5714  
*Ephestia kuehniella*, evaluation 2219  
*Euphorbia esula*, evaluation 4787, 12056  
*Eurydema ornata*, evaluation 386  
*Exorista bombycis*, evaluation 6271  
 formulations 5719

**Biological control agents cont.**

- Frankliniella occidentalis*, evaluation 7380, 8452  
 genetic engineering 5257  
   reviews 6274, 9531  
 Helicidae, evaluation 353  
*Hoplocampa testudinea*, evaluation 2220  
*Hydrilla verticillata*, evaluation 2751  
 insect pests, evaluation 2526, 3291, 5482  
 insect viruses 5228  
 introduction, Florida 4211  
*Lantana camara*, evaluation 10025  
 legislation, USA 5275  
 Lepidoptera, evaluation 9528  
*Linaria dalmatica*, evaluation 6860  
*Liriomyza trifolii*, evaluation 12037  
*Listronotus oregonensis*, evaluation 10789  
*Lygus hesperus*, evaluation 5537  
*Lymantria dispar*, evaluation 2173, 4673  
*Mamestra configurata*, evaluation 11540  
*Manduca sexta*, evaluation 2175  
*Matricaria perforata*, evaluation 820  
*Melaleuca quinquenervia*, evaluation 8981, 12057  
*Mythimna loreyi*, evaluation 2173  
*Nezara viridula*, evaluation 11918  
 Noctuidae, evaluation 4166  
*Ostrinia nubilalis*, evaluation 9482, 11731  
*Otiorynchus sulcatus*, evaluation 4574, 7409, 10934  
*Pissodes strobi*, evaluation 757  
*Pistia stratiotes*, evaluation 6851  
*Planococcus citri*, evaluation 5553  
*Plutella xylostella*, evaluation 1258, 9799  
*Polygonum glabrum*, evaluation 4785  
*Premnotrypes*, evaluation 8709  
 pressure treatment, decontamination 10358  
*Psylliodes chrysocephala*, evaluation 3291  
 Pyralidae, evaluation 2222  
*Pyrrhalta luteola*, *Ulmus*, evaluation 4710  
*Reticulitermes flavipes*, evaluation 11503  
*Sesbania pachycarpa*, evaluation 2221  
*Sida*, evaluation 8980  
*Sitona lineatus*, evaluation 3490  
*Sitophilus zeamais*, evaluation 6883  
*Solanum elaeagnifolium*, evaluation 8982  
*Solanum mauritanium*, evaluation 11029  
*Spodoptera exigua*, evaluation 2173  
*Spodoptera litura*, evaluation 2600  
*Thrips palmi*, evaluation 7796  
*Toxoptera aurantii*, evaluation 5256  
*Ulex europaeus*, evaluation 11013  
 USA 11542  
*Zeuzera pyrina*, evaluation 3274  
**Biological indicators**, Cryptostigmata, soil fertility 1972  
**Biosensors**, pesticides, residues, environment 8587  
**Biosteres**  
   hosts, *Euphranta mexicana* 17  
   taxonomy 1812  
**Biosteres arisanus**  
   biology  
     behaviour 5565  
     development 2887  
   coffee, plantations, USA 9940  
   control, *Bactrocera dorsalis*, guavas 5565  
   guavas, orchards, Hawaii 8795  
   hosts  
     *Bactrocera dorsalis* 2887, 8795  
     Tephritidae 9940  
**Biosteres longicaudatus**  
   biology  
     behaviour 5565  
     dispersal 4109  
   containers 6115  
   control, *Bactrocera dorsalis*, guavas 5565, 8795  
   habitats, Hawaii 4109  
   Hawaii 1216, 3226, 7521  
   hosts  
     *Bactrocera dorsalis* 1216, 7521  
     Tephritidae 3226  
   insecticides, effects 7521



- Biosteres melleus**  
*Crataegus douglasii*, habitats, Washington 2746  
 hosts, *Rhagoletis pomonella* 2746
- Biosteres vandenboschi**  
 biology  
 behaviour 5565  
 reproduction 9434  
 control, *Bactrocera dorsalis*, guavas 5565  
 hosts, Tephritidae 9434
- Biota**, insecticides, residues 2047
- Biotechnology**  
*Bacillus thuringiensis* 10497  
 Baculoviridae, production 2054  
 integrated pest management 401  
 microbial pesticides 10461  
 pest control 2206  
 pest resistance 401
- Biphenate**, effects, *Trialeurodes vaporariorum* 10916
- O-Biphenyldiazencarboxylates**, toxicity, *Tetranychus urticae* 11602
- Biphenylhydrazinecarboxylates**  
 synthesis 4251  
 toxicity, arthropods 4251
- Biprorulus bibax**  
 biology, overwintering 4585  
 control 664  
*Eremocitrus glauca*, Queensland 4585  
 lemons, New South Wales 664  
 parasitoids 664  
 pheromones 9655  
 predators 10383
- Birch** (see *Betula*)
- Bird cherries** (see *Prunus padus*)
- Birds**  
 control, Acrididae, evaluation 6144  
 eggs, insecticides, residues 11648  
*Eurytoma gigantea*, interactions 7257  
*Formica aquilonia*, interactions 5152  
 Formicidae, interactions 2088  
 guano, attractants, *Rhagoletis pomonella* 516  
 insecticides  
 effects 454, 460, 2288, 2290, 2338, 2342, 3374, 4292, 6358, 7564, 7594, 8550, 8552, 9608, 10583, 11613, 11642  
 nontarget effects 4449  
 residues 2347, 4279, 4311, 5323, 7589, 10626, 10655, 11610, 11614  
 toxicity 2326, 9629  
*Lymantria dispar*, interactions 5642  
 molluscicides, effects 448  
 pesticides  
 carriers, degradation 9607  
 consumption 11645  
 effects 451, 508, 4283, 11627  
 mixtures, toxicity 8569  
 residues 263, 2327-2328, 5332, 9630, 10602, 11624, 11649  
 predators 6153  
 prey  
 Acrididae 581  
*Antheraea yamamai* 8245  
 arthropods 5152  
*Danaus gilippus* 4025  
*Eremotermes paradoxalis* 11465  
*Eurosta solidaginis* 7257  
 forests, insects 8869  
*Nisaga simplex* 11745  
*Pieris brassicae* 620  
 proteins, attractants, *Rhagoletis pomonella* 516
- Bisabolangelone**, effects, *Cydia pomonella* 9545
- Bisabolene epoxides**, effects, *Nezara viridula* 7059
- Cis-(Z)- $\alpha$ -Bisabolene epoxides**, pheromones, *Nezara viridula* 7059
- Trans-(Z)- $\alpha$ -Bisabolene epoxide**, pheromones, *Nezara viridula* 7059
- (3R,4S,1'E)-3,4-bis(1'-Butenyl)tetrahydro-2-furanol**, pheromones, *Biprorulus bibax* 9655
- Bissetia steniella**  
 control, chemical control 6725  
 sugarcane, Pakistan 6725
- Biston betularia parva**  
 Japan 9115
- Biston betularia parva** cont.  
 morphology 9115
- Biston suppressaria**, pathogens 10419
- Biston thibetaria**  
 Guizhou 8429  
 pathogens 8429
- Bithynia tentaculata**, retinoic acid, effects 954
- Bitter gourds** (see *Momordica charantia*)
- Bivalvia**, pesticides, residues 5329
- Black cherries** (see *Prunus serotina*)
- Black currants** (*Ribes nigrum*)  
 arthropod pests  
 certification 10862  
 Sweden 10861  
*Cecidophyopsis* 5534  
*Cecidophyopsis ribis*  
 Poland 1554  
 resistance 7829  
*Cryptomyzus galeopsidis* 5535  
*Tetranychus urticae*, Poland 1553
- Black gram** (see *Vigna mungo*)
- Black pepper** (see *Piper nigrum*)
- Black pine** (see *Pinus nigra*)
- Black spruce** (see *Picea mariana*)
- Blackberries** (*Rubus fruticosus*)  
*Cantharis obscura*  
 damage 4569  
 UK 4569  
 Cicadellidae, Poland 1551  
 insect pests, certification 10860  
 pest control 868  
*Trioza trisignata*, Turkey 1148
- Blackeye cowpea mosaic potyvirus**, vectors, *Aphis craccivora* 7747
- Blaniulus guttulatus**  
 control, chemical control 11954  
 sugarbeet, Netherlands 11954
- Blanus cinereus**  
*Messor barbarus*, interactions 292  
 prey, *Pheidole pallidula* 292
- Blastodiplosis quadrata**, taxonomy, new species 5819
- Blastophaga**  
*Ficus*  
 Asia 10103  
 pollination 10103  
 taxonomy 10103
- Blastophaga psenes**  
 figs, pollination 6698  
 plant pathogens, transmission 6698
- Blastophaga pumilae**  
 distribution, Japan 4606  
*Ficus pumila*, Ryukyu Archipelago 4606
- Blastotere thuiella** (see *Argyresthia thuiella*)
- Blastotere trifasciata** (see *Argyresthia trifasciata*)
- Blattisocius keegani**  
 control, chemical control 9013  
 ecology, environmental factors 9013  
 potatoes, commodities, India 5475  
 prey, *Phthorimaea operculella* 5475  
 wheat, commodities, Manitoba 9013
- Bleaching powder**  
 control, *Beauveria bassiana* 3258  
 effects, entomopathogens 9468
- Bledius**  
 biochemistry, secretions 11438  
 predators 11438
- Bledius furcatus**  
 biochemistry, secretions 11438  
 predators 11438
- Blepharella**  
 hosts, *Amata passalis* 751  
*Santalum album*, habitats, Karnataka 751
- Blepharida**  
 biology, behaviour 4715  
*Bursera schlechtendalii* 4715
- Blepharipa schineri**, tea, plantations, Hunan 8382
- Blepharipa zebina**, tea, plantations, Hunan 8382
- Blepharis grossa**, seeds, insects, Namibia 3684
- Blera varana**, *Eucalyptus urophylla*, Minas Gerais 4694
- Blissus leucopterus**  
 biology, life cycle 2483  
*Echinochloa colonum*, Colombia 2483  
 sorghum, resistance 7692
- Blissus leucopterus leucopterus**, bibliographies 2441
- Blüopertha orientalis**  
 biology, behaviour 5376  
 golf courses, Connecticut 6815  
 Japan 7629  
 pheromones 5376, 6815, 7629
- Blood**, fumigants, residues, determination 9398
- Blosyrus**  
 sweet potatoes  
 damage 11801  
 Southern Africa 11801
- Blueberries** (see *Vaccinium*)
- Blumea laciniata**, extracts, effects, *Dysdercus cingulatus* 7987
- Boczekella pseudolaris**  
*Pseudolarix amabilis*, Jiangsu 10104  
 taxonomy, new species 10104
- Boehmeria nivea**  
*Endoclitia jianglingensis*  
 Hunan 11973  
 yield losses 11973
- Boehmeria tricuspidis**, *Ptilineurus marmoratus*, Anhui 718
- Bogs**  
 Araneae, Germany 10284  
 insecticides  
 effects 7615  
 residues 11675  
 Lycosidae, Finland 10368
- Bolitopunctus**, taxonomy, new genus 922
- Bolitothorus cornutus**  
 ecology, population dynamics 2014  
 genetics 2014  
 Virginia 2014
- Bolivia**  
*Canopus* 1065  
*Drosophila buzzatii* 10237  
*Enterolobium contortisiliquum*, *Lochmaecles sladeni* 7929  
*Neopachytychius squamosus* 5822
- Boloria acrocroma**  
 Colorado 7249  
 ecology, habitats 7249  
 genetics, population genetics 1059  
 North America 1059
- Boloria improba**  
 genetics, population genetics 1059  
 North America 1059
- Boloria titania**  
 genetics, population genetics 1059  
 North America 1059
- Bombacopsis quinata**  
 seeds  
*Dysdercus bimaculatus*  
 Colombia 2689  
 damage 2689
- Bombax malabaricum**, wood, *Heterotermes indicola* 849
- Bombus**  
 biology, behaviour, models 3048  
 crops  
 pollination 1198  
 Sudan 1198  
 microorganisms 3004
- Bombus terricola**, toxicity 9600
- Bombyliidae**  
 hosts, *Trypoxylon rogenhoferi* 9264  
 taxonomy 2839
- Bombylius**  
 morphology, genitalia 4876  
 taxonomy 8086
- Bombylius major**, morphology, genitalia 4876
- Bombyx mandarina**  
 China 11555  
 control, sterile insect release 11555  
 genetics, retrotransposons 4989
- Bombyx mori**  
 Asia 4150  
*Bacillus thuringiensis*  
 toxins  
 effects 4204  
 toxicity 1268, 3276, 11498  
 biochemistry 7109, 10394  
 chemical composition 7031, 8174, 8476  
 development 11162  
 diapause 3849  
 endocrine system 3850



**Bombyx mori** *cont.*

biochemistry *cont.*  
 enzymes 92, 346, 978, 2907-2908, 3238, 5189, 7039, 7041, 8218, 9162, 10159, 11177-11178  
 haemolymph 103, 6212  
 hormones 7054  
 immune system 11181  
 juvenile hormones 10197  
 metabolism 10164  
 nervous system 110  
 neuropeptides 984  
 nucleic acids 10202  
 pheromones 9574  
 pigments 7104  
 proteins 991, 5190, 5882, 8222, 9218, 10197  
 senses 10393  
 silk glands 3244  
 spermatzoa 10142  
 biology 178, 10391  
 development 194, 342, 656, 3240, 4129, 5032, 11871  
 diapause 2147  
 environmental factors 340, 2145, 8283-8284, 8402, 9325-9326  
 oviposition 3040  
 reproduction 181, 9610  
 sex ratio 7376, 11466  
 cecropins, effects, plant pathogenic bacteria 9152  
 cell lines 1935  
 biochemistry 8171  
 culture techniques 269  
 pathogens 269, 4191, 7455  
 China 8179  
 chromosomes, analysis 7135  
 cocoons, *Trogoderma halsteadii*, Uttar Pradesh 4791  
 diets 4054-4055, 6212, 7374, 9400  
 enzymes, purification 7042  
 genetics 1047, 6213, 8195, 9254, 10215, 11264, 11468-11469  
 actin 8199  
 breeding 9455  
 cell division 5191  
 chromosome pairing 3246  
 chromosomes 1936, 7135  
 combining ability 8179  
 complementary DNA 8222, 10221  
 DNA 1048, 7372  
 DNA fingerprinting 147  
 gene expression 1038, 1937, 3882, 8218, 11251  
 proteins 5190  
 genes 194, 2972, 4130, 5195, 8398, 10394  
 proteins 11269  
 regulation 7377  
 sequences 161  
 silk glands 9240  
 genetic variation 8401  
 messenger RNA 1944  
 parthenogenesis 7017  
 population genetics 9253  
 reproduction 5194  
 retrotransposons 4989  
 RNA 1043, 2974  
 proteins 9231  
 strains 3243  
 varieties 9227  
 growth regulators, effects 1937, 2148, 3407, 8561, 11680  
 heat treatment, effects 2147  
 hormones 9391  
 insecticides, effects 9610  
 Karnataka 7375-7376, 9469  
 morphology  
 muscles 10123  
 nervous system 2933  
 reproductive organs 5191  
 spermatocytes 8107  
*Morus* 9400  
 mulberries 344, 656, 3244, 11871  
 nuclear polyhedrosis viruses, effects 9391  
 parasitoids 5730, 5847, 6271-6272, 7375, 8369, 10340, 11553  
 pathogens 269, 366, 1237, 1935, 2174, 2176, 2181, 3258, 3281, 4150, 4201, 5224, 5231, 7457, 7465, 7483, 9227, 9467, 9469-9471, 9485,

**Bombyx mori** *cont.*

pathogens *cont.*  
 9504, 10390, 10405, 10416, 11497, 11501, 11523, 11527, 11531  
 pheromones 991, 2933, 3304  
 physiology 9154  
 diapause 341  
 endocrine system 134, 11221  
 hormones 8164  
 nervous system 114, 2933  
 neurosecretory system 2939  
 peptides 3828  
 sense organs 9198  
 senses 11205  
 urea 9400  
 predators 7020, 7159  
 rearing techniques 343-344, 4054-4055, 6213, 6216, 7374, 10395  
 silk, yields 1238, 9454, 10389  
 storage 2146  
 Uttar Pradesh 8195  
**Bonnavist beans** (*see* *Lablab purpureus*)  
**Bontia daphnoides**  
 extracts  
 insecticidal properties 8958  
 toxicity, *Tribolium castaneum* 8958  
**Books**  
 Acrididae, control 3731  
 agricultural chemicals, effects, soil 3734  
 agricultural entomology 2827  
 agricultural sciences 10075  
*Allium* 883  
 Aphididae, population dynamics 6914  
 Aphidoidea 2828  
 plant pathogens, transmission 8047  
 Araneae, Panama 6922  
 Arecaceae 886  
 arthropod pests, ornamental plants 3729  
 arthropods  
 collections 8037  
 molecular genetics 12088  
 populations, evolution 11072  
 Baculoviridae  
 biotechnology 9033, 10071  
 culture techniques 8038  
 bananas, pest control 5773  
 bedding plants 6920  
 biological control  
 arthropods 9044  
 weeds 2215  
 botanical insecticides, allelopathy 8034  
*Capsicum*, pest control 11070  
*Casuarina* 2825  
 Cecidomyiidae, taxonomy 8045  
*Cedrus deodara* 5680  
 cereals  
 commodities, ecology 8036  
 insect pests 12095  
 Chrysomelidae, UK 12101  
 Coccidae, taxonomy 5770  
 Coccinellidae 12092  
 commodities, Coleoptera 5776  
 cotton 8048  
 crops, pest control 6933, 8039  
 Cucurbitaceae, pest control, Queensland 5777  
 Curculionioidea, taxonomy 4816-4818  
 Cycadaceae 886  
 environmental management 895  
*Euphorbia pulcherrima* 9034  
 farm forestry, Australia 9041  
 field crops, pests 8043  
 forest nurseries, insect pests, Portugal 9042  
 forest trees, insect pests 6937  
 forests  
 India 9040  
 insects, Asia 888  
 pests 889  
 Formicidae 9045  
 taxonomy 5772  
 fumigation, cereals, commodities 5774  
 groundnuts 1791  
 groundwater, pesticides, residues 6931  
 honey bees 2820  
 insect control 877  
 insecticides 6929  
 legislation 2822  
 mode of action 12093  
 USA 894  
 insects 9039

**Books** *cont.*

insects *cont.*  
 chemical ecology 10069  
 environmental factors 10072  
 feeding 12091  
 hormones 8042  
 life cycle 12094  
 molecular biology 6911  
 physiology 3736, 10074  
 integrated pest management 12098, 12100  
 Lampyridae, UK 6926  
 Latin America, insects 6923  
 Lepidoptera, UK 8046  
 light traps, insect pests 6927  
 Linyphiidae, taxonomy 12102  
 mangoes 882  
 pests 8041  
 microbial pesticides 2818  
 molecular genetics 10076  
 neem extracts, control, insect pests, rice 2830  
 nurseries 9035  
 Orchidaceae 2728  
 ornamental bulbs, South Africa 881  
 pest control, Sahel 893  
 pest management 6935  
 pesticidal plants 2818  
 pesticides 875, 6930  
 effects, soil invertebrates 3739  
 evaluation 3738  
 nontarget effects 2823, 3735  
 properties 2826  
 residues, analysis 12096-12097  
 UK 6932  
 usage 2826  
*Phlox* 884  
 pineapples 9036  
*Piper beetle* 6819  
 plant pathogens, transmission 11071  
 plant protection 10070  
 plant viruses 11077  
 plants, natural compounds 885  
 potatoes 890  
 pest control 11076  
 Psocoptera 5771  
 rambutans 9037  
 Rhopalocera  
 China 1795  
 environmental factors 10073  
 South Africa 11074  
 rice  
 biological control 12090  
 insect pests 2829, 8044  
*Schistocerca gregaria*, control 3725  
 Scolytidae, entomopathogens, interactions 5778  
 seeds, insect pests 6934  
 soil, mercury, effects 10077  
 soil arthropods  
 biology 2821  
 ecology 2821  
 soyabeans, pest control 12089  
 taxonomy 892  
 Tephritidae, Switzerland 3730  
 tobacco, commodities, insect pests, control 8040  
*Trichogramma* 5775  
 tropical forests 887  
 Turkmenistan, arthropods 11073  
 vegetables, pests, Canada 6925  
*Vigna* 2824  
*Vigna angularis* 3726  
**Boraginaceae**  
*Pachycerus cordiger*, France 2745  
*Phthorimaea operculella* 4487  
**Borates**, effects, *Coptotermes formosanus* 838  
**Bordeaux mixture**, effects, *Empoasca vitis* 11885  
**Boreal forests**, insect pests, Quebec 8846  
**Borneol**, effects, *Hylobius pales* 2258  
**Bornyl acetate**, effects, *Hylobius pales* 2258  
**Boronia megastigma**  
*Ctenarytaina thysanura*, Tasmania 1737, 6833  
 habitats, beneficial arthropods, Tasmania 1737  
**Borophaga**, taxonomy 9078



- Borrichia frutescens**  
*Asphondylia borrichiae*  
 Florida 10985  
 galls 5706, 10985  
*Carneiocephala floridana*, Florida 4777  
 insects, Florida 5706
- Boscia senegalensis**, extracts 11004
- Bostrichidae**  
 forest trees, Chile 5629  
 taxonomy 7270  
 wood, USA 11041
- Botanical gardens**  
 Aphididae, Honshu 2135  
 habitats, *Harmonia axyridis*, Honshu 2135
- Botanical insecticides**  
 allelopathy, books 8034  
 books 2818  
 control, forest pests 2648  
 effects, *Tribolium confusum* 6328  
 nontarget effects, beneficial arthropods 11565  
 pest control, reviews 11565  
 research 6302
- Botanophila seneciella**  
 ecology, interspecific competition, models 11014  
*Senecio jacobaea*, UK 11014
- Bothrometopus**, Indian Ocean Islands 8091
- Bothynoderes punctiventris**  
 control, chemical control 1618, 9929  
 pathogens 6257  
 sugarbeet  
 Czech Republic 5588  
 Hungary 1618  
 Shanxi 9929
- Bothynotus modestus**  
 distribution, Canada 11380  
*Polemonium pulcherrimum*, Canada 11380
- Bothynotus pilosus** (see *B. modestus*)
- Botrytis**, Tortricidae, interactions 2569
- Botrytis cinerea**, vectors, *Thrips obscuratus* 8777
- Botswana**  
 groundnuts, arthropod pests 6713  
 Isopoda 3919  
 soil  
 Isoptera 338  
*Odontotermes* 337  
 woodlands, Diplopoda 3628
- Bottle gourds** (see *Lagenaria siceraria*)
- Botyrtis cinerea**, vectors, *Thrips obscuratus* 5546
- Bougainvillea spectabilis**  
 Eriophyidae  
 Brazil 10984  
 damage 10984
- Bourletiella**  
*Brassica*, New Zealand 6578  
 control, chemical control 6578
- Bourletiella hortensis**  
*Brassica*, New Zealand 6578  
 control, chemical control 6578  
 soil, Egypt 47
- Bouteloua aristoides**, *Pogonomyrmex barbatus*, New Mexico 8971
- Bouteloua gracilis**  
 Cicadellidae, USA 6518  
 extracts, antifeedants, Acrididae 7719
- Bouvardia**, *Bemisia tabaci*, Netherlands 4759
- Bovine serum albumin**, effects, *Acyrtosiphon pisum* 11566
- BPMC** (see Fenobucarb)
- Brachiarina**  
 Cercopidae  
 Brazil 7721  
 Minas Gerais 1464  
 resistance 7721  
 insect pests  
 Colombia 7720  
 resistance 7720
- Brachiarina brizantha**, Cercopidae, resistance 2474
- Brachiarina decumbens**  
 Cercopidae, Mato Grosso do Sul 4455  
*Cornitermes cumulans*, Mato Grosso do Sul 1463  
 Formicidae, Colombia 5457  
*Scaptocoris castanea*, Sao Paulo 2477
- Brachiarina jubata**, Cercopidae, resistance 2474
- Brachidesmus superus**  
 control, chemical control 11954  
 sugarbeet, Netherlands 11954
- Brachionus calyciflorus**  
 insecticides, effects 1369  
 pesticides, effects 1368
- Brachionus plicatilis**, insecticides, effects 10611
- Brachista**  
 America 4839  
 hosts, *Efferia* 4839  
 taxonomy 4839
- Brachista efferiae**  
 hosts, *Efferia* 4839  
 taxonomy, new species 4839
- Brachista fidae**, hosts, *Efferia* 4839
- Brachista fisheri**  
 hosts, *Efferia* 4839  
 taxonomy, new species 4839
- Brachmia**, *Sophora japonica*, Honshu 2687
- Brachycaudus helichrysi**  
 ecology  
 distribution 6705  
 population dynamics 1597  
 predators 1597  
 sunflowers  
 France 6705  
 Yugoslavia 1597
- Brachycaudus schwartzi**  
 ecology, population dynamics 9850  
 peaches, Italy 9850
- Brachycera**  
 evolution 928  
 morphology 4836  
 taxonomy 4836
- Brachychiton australis**, *Lygropia clytusalis*, Queensland 1681
- Brachychiton rupestris**, *Lygropia clytusalis*, Queensland 1681
- Brachycrotaphus indicus**  
 distribution, Tamil Nadu 3088  
 ecology 3088
- Brachycrotaphus tryxalicerus**  
 Namibia 9288  
 songs 9288
- Brachycyrtus**  
 fields, habitats, Maharashtra 5153  
 hosts, *Chrysoperla carnea* 5153
- Brachycyrtus subteralbatus**, *Paraserianthes falcata*, India 2679
- Brachymeria**  
 biology 297  
 hosts  
*Comostolopsis germana* 823  
*Exorista bombycis* 297  
 New South Wales 823
- Brachymeria ateviae**  
 biology, life cycle 1600  
 coconuts, plantations, Kerala 1600  
 hosts, *Opisina arenosella* 1600
- Brachymeria lasus**  
 biology 309  
 life cycle 1600  
 China 1219  
 coconuts, plantations, Kerala 1600  
 diets 309  
 hosts  
*Dendrolimus punctatus* 1219  
*Opisina arenosella* 1600
- Brachymeria lugubris**  
 control, *Exorista bombycis*, evaluation 6271  
 ecology, life tables 6271
- Brachymeria nephandidis**  
 biology, life cycle 1600  
 coconuts, plantations, Kerala 1600  
 hosts, *Opisina arenosella* 1600
- Brachymeria nosatoi**  
 biology, life cycle 1600  
 coconuts, plantations, Kerala 1600  
 hosts, *Opisina arenosella* 1600
- Brachymyrmex obscurior**, ornamental plants, British Virgin Islands 6806
- Brachynema**, biology, development 11149
- Brachynosea**  
 ecology, environmental factors 11340  
 Minas Gerais 11340
- Brachyponera sennaarensis**  
 biology, behaviour 282, 5131
- Brachyponera sennaarensis** cont.  
 prey, Termitidae 282  
 Zaire 5131
- Brachypterinae**, taxonomy 9077
- Brachys**, distribution, Nicaragua 3110
- Brachyserphus hawaiiensis**  
 attractants 6396  
 Hawaii 6396
- Brachystegia boehmii**, Saturniidae, Malawi 7931
- Brachystola magna**  
 Arizona 5059  
 biology, behaviour 5059
- Bracon**  
 hosts  
*Antaeotrica* 7913  
*Cephus cinctus* 6432  
 sorghum, fields, Burkina Faso 2440  
 taxonomy 1843
- Bracon brevicornis**  
 biology, reproduction 7356  
 hosts  
 insect pests 1991  
*Ostrinia nubilalis* 7356
- Bracon dorsalis**, taxonomy, synonyms, of *Tropobracon luteus* 6984
- Bracon froggati**, taxonomy, to *Pycnobraconoides* 4855
- Bracon greeni**  
 hosts, *Pseudohypatopa pulvere* 5159  
 India 5159
- Bracon hebetor**  
 biology  
 longevity 78  
 reproduction 2121  
 hosts  
*Heliocheilus albipunctata* 2442  
*Heliocheilus albipunctella* 2121  
*Homoeosoma nebulosa* 3201  
 Lepidoptera 7397  
*Plodia interpunctella* 78, 9613  
*Pseudohypatopa pulvere* 5159  
 India 5159  
 insecticides, resistance 9440, 9613  
 millets, fields, Niger 2442  
 stored products, habitats, USA 9613  
 toxins, toxicity, Lepidoptera 7347
- Bracon hyslopi**, hosts, *Platyptilia carduidactyla* 5725
- Bracon kirkpatricki**  
 biology, life cycle 5031  
 hosts  
*Ephestia kuehniella* 5031  
*Galleria mellonella* 5116  
 rearing techniques 5116
- Bracon mellitor**  
 cotton, fields, Sao Paulo 1628  
 hosts, *Anthonomus grandis* 1628, 1918
- Bracon minutator**, hosts, *Homoeosoma nebulosa* 3201
- Bracon trucidator** (see *B. minutator*)
- Braconidae**  
*Abies alba*, habitats, Italy 9995  
 apples  
 orchards  
 California 2551  
 Pennsylvania 11846  
 biology, behaviour 4112  
 cereals, fields, Syria 3426  
 crops, habitats, Italy 11833  
*Cryptomeria japonica*, habitats, Japan 6804  
 ecology, habitats 4462  
 evolution 6989, 8049  
 forests, Austria 5028  
 hosts  
*Anarsia lineatella* 3539  
 Aphididae 8826  
*Aphis gossypii* 11833  
*Callidiellum rufipenne* 6804  
*Epinotia nigricana* 9995  
 insect pests 4462  
*Phoracantha* 4112  
*Platynota idaeusalis* 11846  
*Pseudohypatopa pulvere* 5159  
 India 5159  
 insecticides, effects 6522  
 lucerne, fields, Czech Republic 6522  
 morphology, reproductive organs 3793  
*Nerium oleander*, Honshu 797  
 stone fruits, orchards, California 3539



**Braconidae** *cont.*

- taxonomy 2843, 5810
- tobacco, fields, Greece 8826
- Trifolium pratense*, habitats, Germany 4462
- wheat, fields, UK 7496

**Braconinae**

- distribution, Australia 4855
- taxonomy 4855

**Bracteodes**

- biology, life history 10373
- control 10373
- Guizhou 10373
- hosts, *Apis cerana* 10373

**Bradybaena kiangsinensis**, morphology 9457

**Bradybaena ravid**, morphology 9457

**Bradybaena similaris**, morphology 9457

**Bradycellus nigrinus**

- monitoring, traps 5533
- raspberries, fields, Quebec 5533

**Bradycellus semipubescens**

- monitoring, traps 5533
- raspberries, fields, Quebec 5533

**Bradynema rigidum**, morphology, integument 10452

**Bradyrhizobium japonicum**, insecticides, effects 9623, 9749

**Bradysia**

- control, biological control 793
- legumes, damage 8670
- ornamental plants, UK 793
- Pinus*, wood, New South Wales 1695
- UK 793

**Bradysia coprophila**

- biology, development 9230
- genetics
  - DNA 9230
  - RNA 1043

**Bradysia divaricata**

- Arisaema serratum*, Japan 6810
- taxonomy, new species 6810

**Bradysia paupera**

- parasitoids 390
- pathogens 7413
- predators 6181, 9274

**Brahmaeidae**, taxonomy, revisions 4842

**Brassica**

- Acronicta rumicis*, Jiangsu 7635
- Delia radicum*, UK 5493
- fields
  - Bembidion lampros*, UK 5493
  - Coccinella septempunctata*, Uttar Pradesh 5489
- Lipaphis erysimi*
  - resistance 9806, 9912
  - Uttar Pradesh 5489
- oils, effects, *Callosobruchus chinensis* 1765
- Plutella xylostella* 8724
  - China 1276
  - Philippines 11814
  - resistance 7778
  - UK 7778
  - USA 5495
- Syrphidae, Switzerland 2759

**Brassica alba** (see *Sinapis alba*)

**Brassica alboglabra**, *Plutella xylostella*, China 3420

**Brassica botrytis** (see *Cauliflowers*)

**Brassica campestris**

- habitats, insects, Delhi 4101
- intercropping, apples, effects, predatory arthropods 8754

*Lipaphis erysimi*

- Himachal Pradesh 2590
- Indian Punjab 8728
- resistance 2590, 8728
- pest resistance 6591
- Phyllotreta cruciferae*, resistance 2402
- Plutella xylostella*, China 3420

**Brassica campestris** var. *napobrassica* (see *Swedes*)

**Brassica campestris** var. *oleifera* (see *Turnip rape*)

**Brassica campestris** var. *rapa* (see *Turnips*)

**Brassica campestris** var. *sarson* (see *Sarson*)

**Brassica campestris** var. *toria* (see *Toria*)

**Brassica carinata**

- Lipaphis erysimi*
  - Himachal Pradesh 2590
  - resistance 2590

**Brassica fimbriata** (see *Kale*)

**Brassica fruticulosa**, extracts, effects, *Brevicoryne brassicae* 816

**Brassica fruticulosa**, *Brevicoryne brassicae*, resistance 9805

**Brassica gemmifera** (see *Brussels sprouts*)

**Brassica hirta** (see *Sinapis alba*)

**Brassica juncea** (see *Indian mustard*)

**Brassica napobrassica** (see *Swedes*)

**Brassica napus** (see *Sarson*)

**Brassica napus** var. *esculenta* (see *Swedes*)

**Brassica napus** var. *napobrassica* (see *Swedes*)

**Brassica napus** var. *oleifera* (see *Rape*)

**Brassica napus** var. *rapifera* (see *Swedes*)

**Brassica oleracea**

- Bemisia argentifolii*, resistance 10806
- Bemisia tabaci*, resistance 2524
- Delia floralis*, resistance 4512
- insect pests, resistance 9521
- Plutella xylostella*, China 3420

**Brassica oleracea** var. *acephala* (see *Kale*)

**Brassica oleracea** var. *botrytis* (see *Cauliflowers*)

**Brassica oleracea** var. *capitata* (see *Cabbages*)

**Brassica oleracea** var. *caulorapa* (see *Kohlrabi*)

**Brassica oleracea** var. *gemmifera* (see *Brussels sprouts*)

**Brassica oleracea** var. *gongylodes* (see *Kohlrabi*)

**Brassica oleracea** var. *italica* (see *Broccoli*)

**Brassica oleracea** var. *viridis* (see *Kale*)

**Brassica pekinensis** (see *Chinese cabbages*)

**Brassica rapa**

- Phyllotreta cruciferae*
  - Manitoba 4390
  - resistance 4390

**Brassica rapa** subsp. *oleifera* (see *Turnip rape*)

**Brassica rapa** subsp. *rapa* (see *Turnips*)

**Brassica sativa**, *Spodoptera littoralis* 2194

**Brassica spinescens**

- Brevicoryne brassicae*, resistance 9805
- extracts, effects, *Brevicoryne brassicae* 816

**Brassica villosa**, *Phyllotreta cruciferae*, resistance 7770

**Brassica villosa** subsp. *drepanensis*, *Phyllotreta cruciferae*, resistance 7770

**Brassicaceae**

- Aphididae 4510
- Zhejiang 3516
- Brevicoryne brassicae*, interactions 4510
- Crocicidolomia binotalis*, Mauritius 8960
- extracts, antifeedants, Noctuidae 6397
- insect pests 2019
- Myzus persicae*, Venezuela 4383
- Pieris brassicae* 2923
- Plutella xylostella*, Japan 4503

**Brassolii sophorae**

- Arecaceae
  - damage 5683
  - Venezuela 5683

**Brazil**

- Acari 2507
- Agromyzidae 2858
- Annona*, insect pests 11908
- Anticarsia gemmatilis* 5245
  - pathogens 6227
- Aphididae 2865, 8079
- Apis mellifera* 9430
- Brachiaria*, Cercopidae 7721
- cassava
  - Amblyseius manihoti* 4833
  - habitats, *Amblyseius limonicus* 5478
  - Mononychellus progresivus* 4497
- Ceratitis capitata* 5374
- Cochylini* 3108
- cotton
  - Anthonomus grandis* 6741
  - insect pests 1629
  - integrated pest management, reviews 5603, 5606
- Drosophila gaucha* 1993
- Drosophila mediopunctata* 10130

**Brazil** *cont.*

- Eichhornia crassipes*, Dynastinae 1120
- Eucalyptus*, Hemiptera 1661
- food plants, Curculionidae 11291
- forest trees, insect pests 3629
- Isoptera 4683
- Nezara viridula* 975
- Parthenium hysterophorus*, *Listronotus setosipennis* 3288
- pastures, Cercopidae 3480
- Paullinia cupana*, pest control 798
- peaches, *Anastrepha fraterculus* 7207
- soil, insecticides, degradation 7619
- Solenopsis*, parasitoids 11412
- soyabeans
  - Anticarsia gemmatilis* 1256
  - Aphididae 10768
  - integrated pest management 6535
- structural timbers, *Microstigmus* 10
- sugarcane, *Castniomera licusare* 10903
- Teratophylidea opaca* 1141
- Trichogrammatidae 4838
- wheat, *Schizaphis graminum* 9682
- Acre, legumes, *Cerotoma tingomarianus* 1409
- Amazonas
  - Annonaceae, insect pests 8794
  - Leptopharsa heveae*, *Hevea brasiliensis* 719
  - soil fauna 3072
  - Syntermes 4690
  - Tachigali myrmecophila*, *Pseudomyrmex concolor* 2683
- Amazonia, forest trees, *Coptotermes* 5628
- Bahia
  - cocoa
    - Azteca charitex* 10910
    - plantations, Formicidae 3085
  - coconuts, *Lincus lobuliger* 8806
  - Eucalyptus*, insect pests 739
- Brasilia
  - Citrus*, *Pulvinaria flavescens*, natural enemies 3559
  - Noctuidae 8419
  - peas, *Myzus persicae* 6544
  - Polistes versicolor* 3014
- Ceara
  - Annona muricata*, insect pests 4599
  - cotton
    - Anthonomus grandis* 4654
    - Tetranychus* 4653
  - cowpeas, *Chalcodermus bimaculatus* 7745
- Espirito Santo
  - Eucalyptus* 1660
  - Coleoptera 3637
  - Lepidoptera 3639
  - forests, Formicidae 7902
- Federal District, wheat, *Collaria oleosa* 9672
- Goias
  - cowpeas, *Chalcodermus bimaculatus* 7745
  - rice
    - Isoptera 3476
    - pest control 9721
  - subtropical fruits, Tephritidae 7840
- Mato Grosso
  - Rhammatocerus schistocercoides* 9147
  - Vespidae 11346
- Mato Grosso do Sul
  - Anticarsia gemmatilis* 6260
  - Brachiaria decumbens*
    - Cercopidae 4455
    - Cornitermes cumulans* 1463
  - maize, *Dichelops melacanthus* 8644
  - Neoseiulus idaeus* 323
  - pastures, *Cornitermes cumulans* 4457
  - soyabeans, Pentatomidae 4472
- Minas Gerais
  - Acromyrmex landolti* 9118
  - Brachiaria*, Cercopidae 1464
  - Brachypnoea* 11340
  - coffee
    - Perileucoptera coffeella* 3606, 5595
    - plantations, Formicidae 701
  - Eucalyptus* 1660



**Brazil cont.**

## Minas Gerais cont.

*Eucalyptus* cont.forests, *Acromyrmex subterraneus* 5053

Lepidoptera 3639

*Eucalyptus cloeziana*

forests, parasitoids 7913

Lepidoptera 7913

*Eucalyptus urophylla*, Lepidoptera

4694

field crops, *Astylus variegatus* 5421

forests, Arctiidae 8854

kale, fields, beneficial insects 4506

pineapples, *Dysmicoccus brevipes* 4597

soyabeans, insect pests 7729

*Tabebuia ochracea*, insect pests 3647tomatoes, *Scrobipalpa absoluta* 4530

## Para

*Eucalyptus urophylla*, Lepidoptera

4695

forests

*Atta sexdens* 7904

Formicidae 4678

Paraiba, cotton, *Anthonomus grandis*

2639, 7888

## Parana

*Anticarsia gemmatilis*, pathogens 6260*Citrus*, arthropod pests 663coffee, *Perileucoptera coffeella* 4643cotton, *Alabama argillacea* 3621habitats, *Euschistus heros* 5395maize, *Leptoglossus zonatus* 557onions, *Thrips tabaci* 4504-4505

potatoes, Aphididae 4495

Scarabaeidae 7267

*Sitophilus zeamais* 1329

soyabeans

fields, *Calosoma alternans* 7569

Pentatomidae 4472, 8690

tomatoes, *Frankliniella schultzei* 8736

## Pernambuco

cabbages, *Plutella xylostella* 1504cowpeas, *Empoasca kraemerii* 1485

field crops, insect pests 8643

passion fruits, Nymphalidae 1578

## Rio de Janeiro

*Eugenia*, Cecidomyiidae 3775

oranges, Hemiptera 4586

ornamental woody plants, Eriophyidae 10984

*Orthezia praelonga*, food plants 4384*Phaleria testacea* 1985Rio Grande do Norte, cotton, *Anthonomus grandis* 717

## Rio Grande do Sul

*Acromyrmex heyeri* 4216*Anticarsia gemmatilis* 6260apples, *Phtherochroa cranaodes* 4076*Diloboderus abderus* 7246*Drosophila nebulosa* 3895*Drosophila tripunctata* group 3898*Drosophila willistoni* 3878*Dryas julia* 5011food plants, *Diploschema rotundicollis* 10876

grapes

*Eurhizococcus brasiliensis* 4203*Polyphagotarsonemus latus* 4580guavas, *Anastrepha fraterculus* 4598*Ilex paraguariensis*, *Hedypathes betulinus* 4648*Oncideres* 6287peaches, *Anastrepha fraterculus* 4567

rice

fields, Tachinidae 4439

*Oebalus ypsilon* 4439

Pentatomidae 1460

soyabeans, Pentatomidae 4472

tobacco, *Myzus nicotianae* 8827Rondonia, *Theobroma*, *Conotrachelus humeripictus* 10911

## Santa Catarina

*Acca sellowiana**Anastrepha fraterculus* 4605*Ulotingis nitor* 4603cassava, *Pseudococcus mandio* 4499**Brazil cont.**

## Santa Catarina cont.

grapes, *Eurhizococcus brasiliensis* 4203kiwifruits, *Anastrepha fraterculus* 7856rice, *Tibraca limbativentris* 8663roses, *Eurhizococcus brasiliensis* 3995stone fruits, *Anastrepha* 1544

## Sao Paulo

*Acanthognathus rudis* 6055*Averrhoa carambola*, commodities,*Anastrepha obliqua* 10031*Azalea*, *Brevipalpus* 3934*Bauhinia variegata*, insects 4754*Citrus**Brevipalpus phoenicis* 3558

orchards, Phytoseiidae 8786

*Parlatoria* 6687*Selenaspis articulatus* 2580

cocoa, litter (plant), Formicidae 1624

coconuts, *Amrineus cocofolius* 4624*Conomyrma insana* 7248*Cornitermes cumulans* 7015

cotton

*Anthonomus grandis* 1628, 5613,

8831, 9950

predators 5614

commodities, insect pests 7886

fields, *Bracon mellitor* 1628habitats, *Pheidole oliveirai* 7897

Lepidoptera 1630, 4655

*Pectinophora gossypiella* 1627,

4656

*Euaesta* 9*Eucalyptus* 1660

arthropods 2660

Lepidoptera 3639

*Ficus microcarpa*, *Micranisa yashiroi* 6694food plants, *Geocoris* 6737grapes, *Tetranychus urticae* 4579

maize

fields, *Trichogramma pretiosum* 4416*Helicoverpa zea* 5420

Noctuidae 4416

*Spodoptera frugiperda* 4412*Microgramma squamulosa*, Gelechiidae 5687

Muscidae 8116

oranges

*Brevipalpus phoenicis* 4595orchards, *Aphytis hispanicus* 7846*Parlatoria cinerea* 7846

ornamental woody plants, Eriophyidae 10984

pastures, *Scaptocoris castanea* 2477*Polistes lano* 3031*Polybia paulista* 3990pomegranates, *Leptoglossus zonatus* 8792

rivers, pesticide residues 7611

roses, *Tetranychus urticae* 2724

Scarabaeidae 5983

*Solanum*

arthropod pests 2528

*Mechanitis lysimnia* 1093*Solenopsis saevissima* 8363

soyabeans, Pentatomidae 2486, 4472

sugarcane, *Diatraea saccharalis* 1610*Tabebuia chrysotricha*, insects 8358

tomatoes

integrated pest management 8733

*Neoleucinodes elegantalis* 9811*Scrobipalpa absoluta* 2535,

4531

*Trypoxylon rogenhoferi* 9264

Vespidae 2881, 3783

Sergipe, *Dinoponera quadriceps* 8248**Brentidae**

checklists, Italy 5088

distribution, Italy 5088

taxonomy 5088

books 4817

*Brepholoxa*, taxonomy 4867*Brevennis rehi*, rice, resistance 2458**exo-Brevicommin**attractants, *Dryocoetes confusus* 1702**exo-Brevicommin cont.**mixtures, attractants, *Dendroctonus**brevicomis* 7936**Brevicoryne brassicae**

biology 7771

behaviour 9804

development 5501

**Brassica**

Delhi 11811

Himachal Pradesh 2602

Brassicaceae, resistance 9805

broccoli, California 4508, 6587, 7766, 9804

Brussels sprouts, UK 4404

cabbages 9674

damage 9803

Denmark 621

Himachal Pradesh 4513

Netherlands 7771

New Zealand 6604

Yugoslavia 1507

control

chemical control 1609, 6604

cultural control 621, 4508, 6587, 7771

crops, interactions 4510

ecology

distribution 11811

population dynamics 1507, 4404, 4513, 7260

food plants 4510, 5501

Germany 7260

Indian mustard, Pakistan 1609

kale, varietal susceptibility 8722

monitoring, traps 7260, 9804

parasitoids 1104, 4510, 6183, 6428,

6587, 9674

pathogens 1263

plant extracts, effects 816

plant pathogens, transmission 9914

predators 4404

rape 9914

Shaanxi 9911

Yugoslavia 1263

**Brevipalpus californicus***Azalea*, Sao Paulo 3934

biology, development 3934

food plants, Indian Punjab 10084

**Brevipalpus cucurbitae**

distribution, Indian Punjab 10084

food plants, Indian Punjab 10084

**Brevipalpus deleoni**, food plants, Indian

Punjab 10084

**Brevipalpus jambhiri***Citrus jambhiri*, Indian Punjab 10084

taxonomy, new species 10084

**Brevipalpus obovatus***Azalea*, Sao Paulo 3934

biology, development 3934

coffee, habitats, Queensland 5596

control, chemical control 2578

mandarins, Florida 2578

**Brevipalpus phoenicis**

acaricides

effects 4594

toxicity 3558

*Azalea*, Sao Paulo 3934

biology, development 3934

*Citrus*, Sao Paulo 3558

control, chemical control 2578

mandarins, Florida 2578

oranges 4594

Sao Paulo 4595

plants, resistance 4391

predators 4595

sampling 9934

tea, Indonesia 9934

**Brevipalpus pulcher** (see *Cenopalpus**pulcher*)**Brevipalpus rica**, food plants, Indian Punjab

10084

**Brevipalpus rugulosus**, food plants, Indian

Punjab 10084

**Brevipalpus tinsukiaensis**, food plants,

Indian Punjab 10084

**Brewers' yeast***Dienerella filum*

Czech Republic 12076

damage 12076

**Brickellia**, *Procecidochares flavipes*, Califor-

nia 276



**Brighteners**, effects, nuclear polyhedrosis viruses, pathogenicity 9511

**Brinckochrysa nachoi**  
*Eucalyptus globulus*, habitats, Spain 741  
morphology 741  
prey, *Aphis* 741

**Brinckochrysa scelestis**  
control, *Spodoptera litura*, potatoes 1493  
potatoes, fields, Karnataka 1493

**Brinjal** (see Aubergines)

**British Isles**, Aphidoidea 8108

**British Virgin Islands**, ornamental plants, pests 6806

**Broad beans** (see Faba beans)

**Broadleaves**  
*Apodiphus*, Pakistan 2546  
forests  
    Formicidae, Connecticut 4688  
    Vespidae, West Virginia 7911  
*Lymantria dispar*  
    Connecticut 4688  
    Massachusetts 4687  
    USA 1656  
*Taeniothrips inconsequens* 1150

**Broccoli** (*Brassica oleracea* var. *italica*)  
Aphididae, California 6587, 9804  
*Bemisia argentifolii*  
    California 10794  
    resistance 10806  
*Bemisia tabaci*, resistance 2524  
*Brevicoryne brassicae*, California 4508, 7766  
*Crociodolomia binotalis* 1503  
habitats, *Diaeretiella rapae*, California 6587  
pest control, Guatemala 11812  
pesticides, detection 9393  
*Pieris rapae*, Virginia 9797

**Brodifacoum**, effects, *Pinus tectus* 6121

**Bromelia hemisphaerica**, arthropods, Mexico 811

**Bromoacetates**, pheromones, Noctuidae 7634

**4-Bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl) pyrrole-3-carbonitrile**  
control, *Spodoptera exigua*, soyabeans 4470  
toxicity, *Spodoptera exigua* 4470  
control, *Brevipalpus*, mandarins 2578  
effects, animals 2278

**4-Bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile**, control, *Spodoptera exigua*, cotton 6736

**4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile**, control, *Chrysodeixis includens* 1474

**Bromophos**  
control, *Delia coarctata*, wheat 6438  
toxicity  
    *Aphis gossypii* 6625  
    sorghum 2437

**Bromophos-ethyl**, toxicity, sorghum 2437

**Bromopropylate**  
control  
    *Calepitrimerus vitis*, grapes 7837  
    Eriophyidae, grapes 9869  
    *Tetranychus urticae*, grapes 6670  
    *Varroa jacobsoni* 10381  
effects, *Typhlodromus pyri* 7837  
formulations, water hardness, effects 3324  
residues  
    determination 10605  
    honey 9601, 10605

**4-Bromo-2-(chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-pyrrole-3-carbonitrile**, toxicity, arthropod pests 5279

**Bromoxynil**  
effects, *Spodoptera littoralis* 2259  
phytotoxicity, wheat, seeds 11723  
toxicity, *Deroceras reticulatum* 11723

**Bromus**, seeds, *Pyemotes tritici*, Michigan 3193

**Bromus carinatus**, *Poanes melane* 5402

**Bromus catharticus**  
*Chinomus haywardi* 3425

**Bromus catharticus** cont.  
insect pests  
    damage 6515  
    New Zealand 6515  
*Listronotus bonariensis*  
    damage 6508  
    New Zealand 6508

**Bromus inermis**  
habitats, Hymenoptera, Indiana 2475  
*Simyra henrici*, Indiana 2475

**Bromus wildenowii** (see *B. catharticus*)

**Brontocoris tabidus**  
diets 7159  
prey, *Bombyx mori* 7159  
rearing techniques 7159

**Broussonetia papyrifera**, *Eotetranychus cel-tis*, Anhui 1830

**Brown trout**, insecticides, residues 7616

**Bruchidae**  
*Acacia*, interactions 1677  
*Cercidium*, USA 4766  
*Dicorynia guianensis*  
    damage 6771  
    French Guiana 6771  
ecology 5021  
    population dynamics 4766  
    parasitoids 4482  
    *Scheelea zonensis*, seeds, Panama 7900

**Bruchidius**  
*Acacia*, Saudi Arabia 12002  
Fabaceae, Hungary 8968  
parasitoids 10042

**Bruchidius andrewesi**, *Acacia tortilis*, Rajasthan 8861

**Bruchidius arabius**  
*Acacia*, Saudi Arabia 12002  
biology, altitude 12002

**Bruchidius atrolineatus**  
biology, environmental factors 228  
cowpeas  
    commodities 12086  
    varietal susceptibility 12068  
    Niger 228  
    Niger 10045  
parasitoids 4482, 10045, 12086

**Bruchidius aurivillii**  
*Acacia tortilis*, Saudi Arabia 12002  
biology, altitude 12002

**Bruchidius chloroticus**  
Fabaceae, commodities, Delhi 10042  
parasitoids 10042

**Bruchidius sahelicus**  
*Acacia tortilis*, Saudi Arabia 12002  
biology, altitude 12002  
Fabaceae, commodities, Delhi 10042  
parasitoids 10042

**Bruchidius saudicus**  
*Acacia ehrenbergiana*, Saudi Arabia 12002  
biology, altitude 12002

**Bruchidius uberatus**, *Acacia*, Sudan 6776

**Bruchidius varius**  
ecology, habitats 4462  
parasitoids 4462  
*Trifolium pratense*, Germany 4462

**Bruchophagus gibbus**  
ecology, habitats 4462  
parasitoids 4462  
*Trifolium pratense*, Germany 4462

**Bruchophagus roddi**  
biology, environmental factors 4458  
lucerne  
    damage 4458  
    Hungary 4458

**Bruchophagus sophorae**  
*Sophora japonica*  
    seeds  
        damage 1709  
        Slovakia 1709

**Bruchus**  
Fabaceae, Hungary 8968  
taxonomy 9080

**Bruchus affinis**  
biology 8686  
*Lathyrus*, France 8686

**Bruchus pisorum**  
legumes, Chile 4466  
peas, resistance 2494  
plant extracts, effects 4466  
taxonomy 9080

**Bruchus rufimanus**  
biology, diapause 3498  
faba beans  
    damage 1772  
    Morocco 3498

**Brulleia**, taxonomy 4854

**Brulleia obereae**  
hosts, *Oberea* 4854  
taxonomy, new species 4854

**Brumoides suturalis**, prey, *Aphis affinis* 8955

**Brunei Darussalam**  
crops, *Bactrocera occipitalis* 9893  
food plants, *Lonchodes harmani* 2847

**Brussels sprouts** (*Brassica oleracea* var. *gemmifera*)  
*Bemisia tabaci*, resistance 2524  
*Brevicoryne brassicae*, UK 4404  
extracts, attractants, *Cotesia glomerata* 5490  
habitats, predatory insects, UK 4404  
Lepidoptera, Prince Edward Island 4515  
odours, effects, *Cotesia* 6582  
*Pieris* 6582  
*Pieris brassicae*  
    damage 5490  
    UK 4509  
*Pieris rapae* 6043  
    economic thresholds 4515  
*Plutella xylostella*  
    economic thresholds 4515  
    UK 5491  
*Trichoplusia ni*, economic thresholds 4515

**Bryobia**  
pastures  
    Western Australia 11756  
    yield losses 11756

**Bryobia praetiosa**  
biology 1424  
distribution, Argentina 1424  
morphology 1424  
wheat  
    Argentina 1424  
    damage 1424

**Bryobia rubrioculus**, distribution, Slovakia 7280

**Bryobia variabilis**, *Cytisus scoparius*, New Zealand 6849

**Bryophacis**, taxonomy 922

**Bryoporus**, taxonomy 922

**Bubulcus ibis**  
prey  
    *Holotrichia* 4029  
    insects 275  
    *Thysanoplia orichalcea* 1469

**Bucculatrix loxoptila**  
biology, behaviour 3611  
cotton, Tamil Nadu 3611

**Bucculatrix thoracella**  
distribution  
    Europe 10952  
    Netherlands 10952  
    parasitoids 10952  
    Tilia, Netherlands 10952

**Bucculatrix thurberiella**  
cotton, Arizona 4663  
*Gossypium thurberi*  
    damage 2741-2742  
    Florida 2741-2742  
    monitoring, traps 4663  
    pheromones 4663

**Buchanania obovata**  
insect pests  
    damage 5637  
    Northern Territory 5637

**Buchloe dactyloides**  
Cicadellidae, USA 6518  
Pseudococcidae  
    damage 6506  
    Nebraska 6506

**Buchnera**  
*Acyrtosiphon pisum*, symbiosis 967  
Aphididae, symbionts 8220

**Buchnera aphidicola**  
genetics, DNA 8347  
*Schizaphis graminum*, symbiosis 8347, 8422

**Buckwheat** (*Fagopyrum esculentum*)  
commodities, insecticides, residues 844



- Buddleja davidii**, biological control agents, evaluation 6069
- Bufenozide**, usage 1314
- Bufo americanus**, insecticides, effects 10615
- Bufo arenarum**, insecticides, toxicity 10590
- Buibulactone**, mixtures, attractants, *Anomala octiescostata* 2766
- Buildings**  
insect pests 1760  
pest control, models 5262
- Bulbs**, *Rhizoglyphus robini* 5751
- Bulgaria**  
*Cydia molesta*, pathogens 8411  
Noctuidae 11689  
peaches, *Cydia molesta* 11863  
Pinopsida, *Cinara* 755  
tomatoes, conferences 10066  
tree fruits, *Aethmia ambusta* 11850
- Bulinus truncatus**  
genetics, population genetics 8235  
Nigeria 8235
- Bullatacin**  
pesticidal properties 5280  
structure 5280
- Bupalus piniarius**  
biology, diet 9986  
ecology, population dynamics, models 1135  
*Pinus sylvestris*  
damage 8905  
Germany 8905, 9986  
Spain 2028
- Buprestidae**  
control 6749  
chemical control 10051  
forest trees, Chile 5629  
*Gutierrezia*, Argentina 5716  
Nicaragua 3110  
parasitoids 5172  
*Sorbus*, Germany 6749  
taxonomy 11129  
wood 10051
- Buprestis**, taxonomy 3757
- Buprestis octoguttata**, taxonomy 3757
- Buprofezin**  
control  
*Bemisia tabaci*, cotton 4658, 5612  
Delphacidae, rice 3466, 11748  
*Empoasca* 7495  
*Metacalfa pruinosa*, fruits 11854  
*Nilaparvata lugens* 7493  
*Protopulvinaria pyrifomis*, avocados 10890  
*Pseudaulacaspis pentagona*, tea 11957  
*Trialeurodes vaporariorum*, cucumbers 4544
- effects  
aquatic organisms 2302  
beneficial organisms 2335  
*Locusta migratoria* 4350  
*Trichogramma pretiosum* 7570  
mixtures, control, *Bemisia tabaci*, tomatoes 4521  
mode of action 2387, 3313  
nontarget effects 2387  
Aphelinidae 4317  
physicochemical properties 2387  
residues  
crops, analysis 5503  
fruit vegetables, commodities, analysis 4068  
rice 11738  
resistance  
Aleyrodidae 9956  
*Bemisia tabaci* 4218  
*Trialeurodes vaporariorum* 11829  
toxicity  
*Bemisia tabaci* 9649  
beneficial insects 11607  
*Ceraeochrysa cubana* 4324  
insect pests 7541  
uptake, rice 6492
- Burkina Faso**  
insect pests 10484-10485  
insects 10486  
sesame, insect pests 8812  
sorghum  
*Atherigona soccata*, natural enemies 1417, 2440  
*Eurystylus immaculatus* 7685
- Burkina Faso cont.**  
sorghum cont.  
fields, beneficial arthropods 1417
- Bursaphelenchus cocophilus**, vectors, *Rhynchorus palmarum* 7862
- Bursaphelenchus mucronatus**  
*Monochamus galloprovincialis*, interactions 5674  
*Monochamus saltuarius*, interactions 7955  
vectors  
*Monochamus saltuarius* 7955  
*Monochamus sutor* 1686
- Bursaphelenchus xylophilus**, vectors, *Monochamus alternatus* 2381
- Bursera fagaroides**, insect pests, Mexico 7932
- Bursera schlehtendalii**, *Blepharida* 4715
- Busseola fusca**  
biology, diapause 11734  
control, chemical control 3445  
diets 6423  
field crops  
Kenya 1418  
resistance 1418  
food plants, Africa 6423  
rearing techniques 6423  
sorghum  
Ethiopia 11734  
Kenya 6473  
resistance 3445, 6473  
South Africa 3445
- Butacarboxim**, control, insect pests, cotton 4650
- Butanol**, attractants, *Spilarctia obliqua* 4369
- 3-Butanoyl-4-hydroxy-6-methyl-2H-pyran-2-one**, *Holothrips*, physiology, secretions 4934
- Butea monosperma**  
extracts, effects, *Dysdercus similis* 2734  
habitats, parasitoids, Bihar 11431  
insecticidal properties 2734  
*Kerria lacca*, Bihar 11431
- Butocarboxim**  
control  
*Aleurocanthus woglumi*, mandarins 5557  
*Bemisia tabaci*, tomatoes 8742  
residues, water, monitoring 5361
- Butter**, insecticides, residues 11628
- Butterflies** (see *Rhopalocera*)
- N-(4-tert-Butylbenzyl)-4-chloro-3-ethyl-1-methylpyrazole-5-carboxamide**, metabolism, rats 4325
- N-(4-tert-Butylbenzyl)pyrazolecarboxamides**  
synthesis 7540  
toxicity, *Tetranychus urticae* 7540
- 1-Tert-Butyl-1-(2-chlorobenzoyl)-2-benzoylhydrazines**, effects, *Chilo suppressalis* 4351
- N-tert-Butyl-N,N'-dibenzoylhydrazine**, effects, *Chilo suppressalis* 10672
- 1-Tert-Butyl-1-(3,5-dichlorobenzoyl)-2-(4-ethylbenzoyl)hydrazine**, effects, *Chilo suppressalis* 4351
- tert-Butyl-(E)-4-(1,3-dimethyl-5-phenoxy)pyrazol-4-yl-methyleneamino-oxy)-p-toluolate**, control, *Aceria macrodonis*, *Lycium chinense* 7982
- Butyrates**, effects, *Lygus lineolaris* 7517
- Buxus megistophylla**, *Yponomeuta*, Sichuan 8892
- Buxus microphylla**, habitats, *Agelena limbata*, Japan 2110
- Buxus sempervirens**  
*Eurytetranychus buxi*, Poland 1712  
*Typhlodromus olympicus*, Greece 4858
- Buzura suppressaria** (see *Biston suppressaria*)
- Buzura thibetaria** (see *Biston thibetaria*)
- Byrsocrypta fusiformis**  
ecology, population dynamics 4712  
*Ulmus davidiana*  
galls 4712  
Hokkaido 4712
- Byrsionima intermedia**, extracts, effects, *Atta sexdens* 7999
- Byturidae**, taxonomy 3749
- Byturus tomentosus**  
control 11866
- Byturus tomentosus cont.**  
raspberries, Switzerland 11866
- Cabbages** (*Brassica oleracea* var. *capitata*)  
Anthomyiidae, Poland 6580  
Aphididae 4510  
China 617  
Delhi 11811  
Yugoslavia 1507
- arthropods  
ecology, population dynamics 10805  
Shanghai 10805
- Autographa gamma*, Hokkaido 6583
- Bemisia* 9823
- Bemisia tabaci* 9664  
resistance 2524
- Brevicoryne brassicae* 9674  
damage 9803  
interactions 4510  
New Zealand 6604  
commodities, insecticides, residues 4805
- Crocidolomia binotalis* 4254
- Delia*  
Europe 7767  
Slovakia 10804
- Deroceras reticulatum*, UK 10807
- extracts  
attractants, *Cotesia glomerata* 5490  
effects  
*Brevicoryne brassicae* 816  
Lepidoptera 6576
- fields  
*Apanteles halfordi*, South Africa 8725  
*Cotesia glomerata*, Denmark 620  
*Podisus maculiventris*, Greece 2526  
predatory arthropods, Philippines 5494  
predatory insects, France 1505  
Syrphidae, New Zealand 6577
- habitats  
insects, Delhi 4101  
parasitoids  
Hokkaido 6588  
Taiwan 2525
- Helicoverpa armigera* 179
- insect pests  
Denmark 621  
Greece 2526  
Himachal Pradesh 4513  
Maharashtra 11815  
Netherlands 7771  
New Zealand 6577  
Quebec 7776  
resistance 5488  
Sweden 5488
- insecticides  
effects 3346  
residues 3398, 3517, 8616, 9596, 11813
- integrated pest management, New York 9842
- Lepidoptera 10799  
Bangladesh 1509  
damage 5492, 6584  
economic thresholds 6585, 9800  
Hokkaido 6584-6585, 6589, 9800  
Prince Edward Island 10800  
Shanghai 6339
- Lipaphis erysimi*, Gujarat 5498
- Mamestra brassicae* 9614
- Milax rusticus* 5198
- odours, effects, *Cotesia glomerata* 208
- pest control  
models 3156  
Texas 11812
- pesticides, residues 9604  
*Phyllotreta cruciferae* 10897
- Pieris* 4507
- Pieris brassicae* 5500, 11810  
damage 5490  
Denmark 620, 7777  
Manipur 8726
- Pieris rapae* 10012  
Virginia 9797
- Plutella xylostella* 2749, 7513, 7985, 8724, 9799, 9802  
Florida 6575, 10803  
Hokkaido 6588, 9798  
India 8729  
Indiana 9801  
Jamaica 3515  
Japan 4514



Cabbages cont.

*Plutella xylostella* cont.  
Korea Republic 2522  
Kyushu 7768  
Malaysia 1506  
New South Wales 10801  
Pakistan 6586  
Pernambuco 1504  
resistance 7778  
South Africa 8725  
Taiwan 2525  
UK 7778  
Venezuela 619  
*Spilarctia obliqua* 9748  
*Spodoptera*, Puerto Rico 3519  
*Spodoptera albua*, Puerto Rico 3518  
*Spodoptera exigua*, damage 8727  
*Spodoptera litura* 3419  
Thysanoptera, France 1505  
*Trialeurodes vaporariorum* 9596  
**Cacama valavata**, biochemistry, peptides 11226  
**Cacao** (see Cocoa)  
**Cacao swollen shoot badnavirus**, vectors, Pseudococcidae 5598  
**Cacocimorpha pronubana**, *Viburnum tinus*, Italy 12027  
**Cacopsylla brunneipennis**  
biology, environmental factors 11994  
*Salix lapponum*, Norway 11994  
**Cacopsylla crataegi** (see *Psylla crataegi*)  
**Cacopsylla idiocrataegi**  
biology 11861  
control, chemical control 11861  
*Crataegus*, China 11861  
**Cacopsylla mali**  
apples, Poland 5519  
control, chemical control 5519  
**Cacopsylla mariannae**  
chestnuts, Turkey 1148  
distribution, Turkey 1148  
**Cacopsylla melanoneura** (see *Psylla melanoneura*)  
**Cacopsylla palmeni**  
biology, environmental factors 11994  
*Salix lapponum*, Norway 11994  
**Cacopsylla peregrina** (see *Psylla peregrina*)  
**Cacopsylla propinqua**  
biology, environmental factors 11994  
*Salix lapponum*, Norway 11994  
**Cacopsylla pyri**  
biochemistry, enzymes 4252  
biological control agents, evaluation 4565  
biology 6653, 7808  
behaviour 4564  
control 7808  
chemical control 8765  
ecology, population dynamics 2562, 10855  
France 4252  
growth regulators, effects 4564  
insecticides, resistance 4252  
parasitoids 2562  
pears 4564  
France 8765  
Greece 10855  
Italy 2562  
resistance 9846  
pome fruits, Italy 7808  
predators 2562, 4565  
**Cacopsylla pyricola**  
biology  
behaviour 8766  
diapause 4262  
control 6652  
ecology, population dynamics 6653  
insecticides, resistance 4262  
monitoring 6653  
pears  
Czech Republic 6653  
resistance 7821  
Washington 4563, 6652, 8766  
plant extracts, toxicity 10019  
*Pyrus*, resistance 5531  
sampling 4563  
**Cacopsylla pyrisuga**  
natural enemies 11456  
Shandong 11456  
**Cacoxenus** (see *Domomyza*)  
**Cactaceae**  
*Drosophila*, America 2744

Cactaceae cont.

*Drosophila buzzatii*, Argentina 2947  
**Cactoblastis cactorum**  
*Opuntia stricta* 11021  
physiology, senses 11021  
**Cadmium**  
effects  
*Aiolopus thalassinus* 3314  
*Aphis fabae* 11771  
*Carausius morosus* 1309  
*Dolerus* 10501  
insects 1308  
*Lymantria dispar* 11563  
*Neochetina eichhorniae* 3692  
Noctuidae 10503  
*Omocestus viridulus* 407  
*Pterostichus niger* 11561  
invertebrates 1307  
pollutants, *Arianta arbustorum* 5202  
toxicity  
*Galleria mellonella* 1303, 4228  
soil arthropods 9543  
**Cadra**  
Australia 5087  
control 3540  
dates, Egypt 3540  
**Cadra calidella**  
dates, commodities, Iraq 851  
monitoring, traps 851  
**Cadra cautella**  
Australia 5087  
biology  
behaviour 1107  
environmental factors 6037  
sounds 6036  
control 2780  
mating disruption 7839  
physical control 6874  
dates  
commodities 7839  
Iraq 851  
groundnuts  
commodities 11042  
Georgia 2780  
insecticides, residues, effects 11042  
maize, commodities, Georgia 6874  
monitoring, traps 851, 2782  
*Plodia interpunctella*, interactions 2782  
predators 8390  
radiation, effects 176  
**Cadra figulilella**  
Australia 5087  
dates, commodities, Iraq 851  
monitoring, traps 851  
**Caenocholax**, taxonomy 26  
**Caenoplane coerulea**, prey, *Ommatolius moreleti* 6163  
**Caesalpinia paraguayensis**, *Dorcacerus barbatus*, Argentina 4689  
**Caesalpinia siamea**, *Oxyrachis sinensis*, Yunnan 5805  
**Caffeine**  
effects  
*Manduca sexta* 5858  
*Tribolium castaneum* 2786  
**Caffeoyltyrosine**, kairomones, *Aonidiella aurantii*, parasitoids 7628  
**Cafus**, biochemistry, secretions 4936  
**Caio richardsoni**  
Bombacaceae, Mexico 1854  
morphology, larvae 1854  
**Cajanus cajan** (see Pigeon peas)  
**Calacarus carinatus**  
ecology, population dynamics 7882  
tea, Kerala 7882  
**Calathus cinctus**  
distribution, UK 2837  
taxonomy 2837  
**Calathus melanocephalus**  
biology, environmental factors 237  
taxonomy 2837  
**Calathus mollis**, taxonomy 2837  
**Calathus ruficollis**  
apples, orchards, California 4558, 11851  
insecticides, effects 11851  
prey, *Cydia pomonella* 4558  
**Calcaribracon diore**, distribution, Australia 4855  
**Calcium cyanamide**, effects, *Liriomyza trifolii* 11578

Caledia captiva

Australia 1030  
genetics 1030  
Papua New Guinea 1030  
taxonomy 1030  
**Calendula officinalis**, Lepidoptera, Russia 6821  
**Calepitrimerus vitis**  
control  
chemical control 1557, 7837, 9869  
hot water treatment 9872  
grapes 9872  
Australian Capital Territory 9868  
France 1557  
Hungary 7837  
Spain 9869  
predators 4124, 9868  
**Cales noacki**, control, *Aleurothrix floccosus*, *Citrus* 3555  
**Caligo eurilochus**, biology, behaviour 3961  
**Caligo memnon**, biology, behaviour 3961  
**Caliothrips indicus**  
biology 5582  
environmental factors 11936-11937  
groundnuts 5582, 11941  
Delhi 9769-9770, 11936-11937  
Tamil Nadu 7873  
insecticides, effects 11941  
weeds, interactions 7873  
**Caliroa cerasi**  
biology, defence mechanisms 4125  
predators 4125  
**Calliandra calothyrsus**, insect pests, Philippines 2681  
**Calliandra surinamensis**, *Extatosoma carlbergi*, Papua New Guinea 899  
**Callibracon**, taxonomy, synonyms, of *Poecilobracon* 4855  
**Callibracon flaviceps flaviceps**  
hosts, *Phoracantha* 5172  
taxonomy, from *Ipobracon* 5172  
**Callibracon flaviceps mackayensis**  
hosts, *Phoracantha* 5172  
taxonomy, from *Ipobracon* 5172  
**Callibracon limbatus**, control, *Phoracantha semipunctata*, *Eucalyptus* 6814  
**Callibracon moorei**  
hosts, *Phoracantha* 5172  
taxonomy, new species 5172  
**Callidiellum rufipenne**  
*Cryptomeria japonica*, Japan 6804  
ecology, population dynamics 6804  
parasitoids 6804  
**Calliephialtes notandus**, hosts, *Platyptilia carduidactyla* 5725  
**Calligrapha pantherina**  
biology 8980  
control, *Sida*, evaluation 8980  
**Calligrapha verrucosa**  
ecology 7921  
*Salix*, Alaska 7921  
**Callima dushanbella**  
apples, Tajikistan 2555  
morphology 2555  
taxonomy, new species 2555  
**Callimetopus gloriosus**  
*Acacia mangium*  
damage 6766  
Philippines 6766  
**Callimorpha dominula**  
ecology, population dynamics 4095  
parasitoids 4095  
pyrrolizidine alkaloids, metabolism 4928  
UK 4095  
**Callinectes sapidus**, pollutants, residues 2353  
**Callionima falcifera**, morphology, male genitalia 4892  
**Callionima parce**, morphology, male genitalia 4892  
**Calliphoridae**  
fishes, commodities 8993  
*Polygonum thunbergii*  
Honshu 5727  
pollination 5727  
**Calliptamus**, physiology, reproductive organs 5928  
**Calliptamus barbarus**, Algeria 9362  
**Calliptamus barbarus barbarus**, maize, Pakistan 1437



- Calliptamus italicus***  
control, integrated control 276  
crops, Russia 11406  
Xinjiang 276
- Callirhytis cornigera***  
control, biology 3640  
*Quercus*, Florida 3640
- Callirhytis quercusclavigera***  
control, biology 3640  
*Quercus*, Florida 3640
- Callisia repens*, *Mouralia tinctoria*** 705
- Callitarea pudibunda***  
biology, life history 9666  
ecology 9666  
food plants, Italy 9666
- Callixena versicolora***  
pathogens 4174, 8435  
predators 8435  
Reunion 8435
- Callosamia promethea***  
insecticides, pathogenicity 10438  
Michigan 10438
- Callosobruchus***  
chickpeas, commodities, Maharashtra 4804  
control, chemical control 9771  
cowpeas, Egypt 9771  
genetics, gene expression 1012
- Callosobruchus analis***  
ecology, interspecific competition 11044  
plant extracts, toxicity 11597  
radiation, effects 848  
*Vigna*, commodities 11044
- Callosobruchus chinensis***  
biochemistry, enzymes 6899  
biology 9000  
behaviour 4944, 8703  
developmental stages, identification 8343  
environmental factors 2009-2010, 4013  
chickpeas  
commodities 1765, 3089, 9014  
seeds 3707  
control, chemical control 8017  
cowpeas, commodities 8703  
ecology  
energy relations 3089  
environmental factors, models 11451  
population dynamics 2009-2010  
ectoparasites 5176  
faba beans, resistance 6899  
genetics, mitochondrial DNA 10341  
grain legumes  
commodities 6894, 9000  
damage 2774  
insecticides, toxicity 4795, 6548  
oviposition deterrents 8703  
parasitoids 7168, 9304, 10248, 11451  
peas, commodities, resistance 2777  
pheromones 4944  
pigeon peas, commodities 8017  
plant extracts  
effects 4811  
toxicity 3707, 4794, 6828  
plant oils  
effects 1765, 3675  
repellents 1732  
radiation, effects 848, 6887  
stored products 4795  
*Vigna angularis* 2009-2010  
commodities 4811, 6887  
*Vigna radiata*, commodities 4794
- Callosobruchus maculatus***  
biological control agents, evaluation 5732  
biology  
behaviour 3969, 7057, 7219, 8703  
environmental factors 3708, 11047  
lifespan 3025  
reproduction 1983, 5850, 10146, 11169  
carbon dioxide, effects 5758, 6297  
cereals, commodities 3708  
chickpeas  
commodities 6548  
resistance 11052  
control, chemical control 1486  
cowpeas  
commodities 6895, 7219, 8703, 8952, 8999, 9003, 10045, 12086  
resistance 2776, 4810, 6897
- Callosobruchus maculatus* cont.**  
cowpeas cont.  
commodities cont.  
varietal susceptibility 10033  
Turkey 1486  
ecology  
interspecific competition 11044  
reproduction 11166  
ectoparasites 5169, 10369  
genetics 11047  
reproduction 5953  
grain legumes, commodities 834, 11047  
identification 6895  
insecticides, effects 10038  
Karnataka 1766  
lentils, commodities 5732  
morphology, integument 5837  
Niger 10045  
oviposition deterrents 8703  
parasitoids 3806, 5732, 10045, 10277, 12086  
peas, commodities, resistance 2777  
pheromones 7057  
physiology  
nutrition 834  
pheromones 5837  
reproduction 3801  
plant extracts, effects 8952, 9003  
plant oils, toxicity 6865  
radiation, effects 848  
reproduction, models 3057  
*Vigna*, commodities 3969, 11044  
*Vigna mungo*  
commodities 3711, 10038  
resistance 3711  
*Vigna radiata*, commodities 1766
- Callosobruchus phaseoli***, genetics, mitochondrial DNA 10341
- Callosobruchus rhodesianus***, genetics, mitochondrial DNA 10341
- Callosobruchus subinnotatus***  
biology  
behaviour 4803, 9019  
development 9004  
morphology, integument 5837  
physiology, pheromones 5837  
plant oils, toxicity 6865  
*Vigna subterranea*  
commodities 4803, 9019  
resistance 9004  
varietal susceptibility 12072
- Calocomini***, taxonomy 6959
- Calocoris angustatus***  
control  
chemical control 7690  
integrated control 7686  
ecology, population dynamics 4430  
sorghum  
Andhra Pradesh 7688, 7690  
damage 3447  
India 7686  
Karnataka 4430  
resistance 7688, 7690, 8656
- Calocoris norvegicus***  
cereals, fields, UK 7241  
ecology, habitats 7241
- Calocoris trivialis***, olives, Greece 1603
- Caloglyphus***  
*Allium chinense* 10798  
ecology, population dynamics 10798
- Caloglyphus berlessei***, biology, development 9140
- Calomacraspis***  
America 2850  
taxonomy 2850
- Caloptilia***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia alchimiella***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia betulicola***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia cuculipennella***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia fribergensis***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia kadsuræ***  
*Kadsura japonica*, Japan 6978  
parasitoids 6978
- Caloptilia roscipennella***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia serotina***  
biology, behaviour 6059  
*Prunus serotina* 6059
- Caloptilia stigmatella***  
forest trees, Europe 9102  
morphology, pupae 9102  
taxonomy 9102
- Caloptilia theivora***  
parasitoids 6978  
tea 6978
- Calosoma alternans granulatum***  
insecticides, effects 7569  
soybeans, fields, Parana 7569
- Calosoma chinense***  
apples, orchards, Sichuan 3094  
ecology, arthropod communities 3094
- Calosoma maximowiczii***  
ecology, population dynamics 10944  
*Fagus crenata*, forests, Japan 10944  
prey, *Quadracalcarifera punctatella* 10944
- Calosoma sycophanta***  
biology, reproduction 2125  
grapes 2125  
insecticides, effects 5645  
prey, *Lymantria dispar* 2125
- Calotropis*, *Poecilocerus pictus*** 2403
- Calotropis gigantea*, *Spilostethus hospes***, India 8622
- Calotropis procera***  
extracts, toxicity, *Rhyzopertha dominica* 10036  
*Poecilocerus pictus* 7986
- Calpodes ethlius***  
biochemistry  
peptides 3864  
secretions 101  
physiology, moulting 1879
- Calvia quatuordecimguttata***, parasitoids 7358
- Calycophyllum spruceanum*, *Leuronota calycophylli***, Peru 5654
- Cambodia***, rice, pest control 10744
- Camellia oleifera*, *Paracalopodacus camelliae***, Guangxi 10097
- Camellia sinensis*** (see Tea)
- Cameraria***  
Fabaceae, India 1824  
*Quercus emoryi*  
Arizona 1664  
damage 1664  
taxonomy 1824
- Cameraria hamadryadella*** (see *Phyllo-norycter hamadryadella*)
- Cameraria ohridella***  
*Aesculus hippocastanum*  
damage 4717  
Germany 4717  
control 4717  
distribution, Europe 4717  
forest trees, Austria 10954
- Cameroon***  
cotton  
*Aphis gossypii* 7889  
pest control 2635, 6734  
*Cubitermes* 8396  
*Cubitermes fungifaber* 8396  
*Ficus*, Agaonidae 8080  
food plants, *Cosmopolites sordidus* 6676  
forests  
habitats, Formicidae 4682  
*Polyrhachis laboriosa* 4681  
maize, commodities, pest control 1773  
*Mansonia altissima*, *Godasa sidae* 10929  
pesticides, labelling 6300  
Rhopalocera 11293  
*Sesbania pachycarpa*, *Mesoplatys cincta* 2221  
sweet potatoes, *Cylas* 8717  
*Camisia*, taxonomy 6961







**Canada cont.****Manitoba cont.**

food plants, *Phyllotreta cruciferae* 4390

**lucerne**

fields, predatory insects 8679  
insect pests 8679

*Lygus lineolaris* 9136

*Melilotus*, *Tychius meliloti* 6526

*Phyllotreta cruciferae* 6338

*Pinus sylvestris*, *Hyllobius radialis* 8915

rape, *Phyllotreta* 4619

*Thymelicus lineola* 2034

wheat, commodities, stored products pests 9013

**New Brunswick**

*Abies balsamea*, Lepidoptera 5678

aquatic organisms, insecticide residues 4321

forest trees, *Choristoneura fumiferana* 7615

**Picea glauca**

*Choristoneura fumiferana* 772

*Sacchiphantes abietis* 7958

*Zeiraphera canadensis* 775-776, 4739-4740, 6798

**Pinopsida**

*Choristoneura fumiferana* 1684, 4721-4722

forests, *Trichogramma minutum* 4721

potatoes, *Leptinotarsa decemlineata* 4486, 6553

*Vaccinium angustifolium*, *Rhagoletis mendax* 9856

**New Caledonia**, coffee, *Hypothenemus hampei* 9939**Newfoundland**

*Choristoneura fumiferana* 754

*Dalya* 3776

**Nova Scotia****apples**

Acari, predators 9839

*Panonychus ulmi*, predators 2558, 10850

carrots, *Listronotus oregonensis* 607

greenhouse crops, *Bemisia argentifolii* 8948

*Matricaria perforata*, *Apion hookeri* 252

ornamental plants, insect pests 5681

*Vaccinium*, *Croesia curvalana* 2566

*Vaccinium angustifolium*, *Rhagoletis mendax* 9856

**Ontario*****Abies balsamea***

*Choristoneura fumiferana* 7960

forests, *Apanteles fumiferanae* 7960

*Anas platyrhynchos*, insecticide residues 7589

**apples**

*Panonychus ulmi* 4560

*Phyllonorycter blancardella* 646

*Barbarea vulgaris*, *Plutella xylostella* 5495

birds, insecticide residues 8550

*Carphoborus andersoni* 11364

*Celtis tenuifolia* 818

*Chelydra serpentina*, insecticide residues 10625

*Choristoneura fumiferana* 9568

Drosophilidae, symbionts 11361

environment, pesticide residues 5332

field crops, pest control 8480

food plants, *Rhopalosiphum padi* 6007

**forest trees**

*Choristoneura fumiferana* 756

insect pests 2651

grasses, *Apamea unanims* 5456

greenhouse crops

insects 11541

*Orius* 2537

*Gryllus pennsylvanicus* 3036

*Larus argentatus*, insecticide residues 4306

**maize**

*Diabrotica virgifera* 4417

*Ostrinia nubilalis* 8645

**Canada cont.****Ontario cont.**

*Melilotus*, *Tychius meliloti* 6526

*Notropis hudsonius*, pesticide residues 457

peaches, *Cydia molesta* 6660

*Phyllotreta cruciferae* 6338

**Pinopsida**

*Choristoneura fumiferana* 4721

forests, *Trichogramma minutum* 4721

**Pinus**

*Acantholyda erythrocephala* 394

*Conophthorus resinosae* 9982

**Pinus banksiana**

*Choristoneura pinus* 4724

insect pests 7938

*Pissodes strobi* 2701

**Pinus resinosa**, *Acantholyda erythrocephala* 4730**Pinus strobus**, *Conophthorus coniperda* 9981

*Polistes fuscatus* 3055

*Pseudacris crucifer*, insecticide residues 9606

*Quercus*, *Lymantria dispar* 365

*Reticulitermes flavipes*, pathogens 11503

rivers, pesticide residues 4333

*Rosa rugosa*, *Diplolepis polita* 6811

*Solidago*, *Microphala vittata* 4781

*Solidago altissima*, *Eurosta solidaginis* 6844

tobacco, *Manduca quinquemaculata* 702

**Prince Edward Island**

Brussels sprouts, Lepidoptera 4515

cabbages, Lepidoptera 10800

*Dalya* 3776

potatoes, *Ostrinia nubilalis* 4488, 9784

**Quebec**

*Abies balsamea*, *Choristoneura fumiferana* 2711, 8926

*Allium tricoccum*, *Eupithecia borealis* 9791

**apples**

*Conotrachelus nenuphar* 4549

*Hoplocampa testudinea* 2220

*Betula*, Lepidoptera 4692

*Betula papyrifera*, *Acrobasis betulella* 737

boreal forests, insect pests 8846

cabbages, insect pests 7776

carrots, *Listronotus oregonensis* 10789

**forest trees**

insect pests 730

pest control, reports 5760

*Gryllus pennsylvanicus* 10147

*Larix laricina*, *Pristiphora erichsonii* 2712, 3661

*Lygus lineolaris*, parasitoids 4110

*Lymantria dispar* 2018

maize, *Ostrinia nubilalis* 4411

*Megarhyssa* 2833

*Melilotus*, *Tychius meliloti* 6526

onions, *Thrips tabaci* 8721

*Phyllophaga anxia*, natural enemies 302

**Pinopsida**

insect pests 759

*Pissodes strobi* 4719

**Pinus**, *Hyllobius congener* 4571

potatoes, *Leptinotarsa decemlineata* 8710, 9783

**raspberries**

Byrrhidae 6662

Curculionidae 4571

fields, Carabidae 5533

rivers, pesticide residues 4333

*Rudbeckia hirta*, *Chlorochlamys chloroleucaria* 11322

**Saskatchewan**

*Melilotus*, *Tychius meliloti* 6526

*Phyllotreta cruciferae* 6338

rape, *Phyllotreta* 4619

shelterbelts, insect pests 9023

**Yukon Territory**

*Boloria* 1059

**Canada cont.****Yukon Territory cont.**

*Polemonium pulcherrimum*, *Bothynotus modestus* 11380

**Canary Islands**

Asilidae 2039

*Cardiocondyla nuda* 5140

Collembola 11367

food plants, Heteroptera 5390

*Canavalia ensiformis*, extracts, effects, Aphididae 11564

*Candidula unifasciata*, taxonomy 11471

**Canes and rattans**, *Micrapate xyloperthoides*, UK 3115

**Cannabis sativa** (see Hemp)

**Canola** (see Rape)

**Canopus burmeisteri**

biology 1065

South America 1065

**Canopus fabricii**

biology 1065

South America 1065

**Cantaloupes** (see Melons)

**Cantharidae**

habitats, Hungary 7803

*Pinus*, forests, Poland 5675

wheat, UK 4409

**Cantharis clypeata**, habitats, Hungary 7803

**Cantharis fulvicollis**

prey, Aphididae 7663

wheat, fields, Germany 7663

**Cantharis fusca**

prey, Aphididae 7663

wheat, fields, Germany 7663

**Cantharis lateralis**

prey, Aphididae 7663

wheat, fields, Germany 7663

**Cantharis obscura**

habitats, Hungary 7803

**Rubus**

damage 4569

UK 4569

**Cantharis paradoxa**, habitats, Hungary 7803

**Cantharis rustica**, habitats, Hungary 7803

**Cape Verde**

Diplopoda 7265

field crops, habitats, Aphelinidae 6659

**Cappaea taprobanensis**

Citrus 6678

taxonomy 6678

**Capsella bursa-pastoris**

*Plutella xylostella* 2749

China 3420

**Capsicum**

*Bemisia tabaci*, Mexico 10830

**commodities**

growth regulators, residues, analysis 4068

insecticides, residues 3710, 5503

pesticides, residues 5736

*Frankliniella occidentalis* 3528

Italy 8745

UK 625

**greenhouses**

*Orius laevigatus*, UK 625

predatory mites 5174

**insecticides**

degradation 6614

metabolism 10612

residues 9395

**pest control**

books 11070

India 3677

*Polyphagotarsonemus latus*, Florida 8746

*Pseudaulacaspis pentagona* 4868

*Spodoptera exigua* 7636

Thrips, New Zealand 6613

Thrips palmi, Venezuela 624

Thysanoptera, Italy 10831

Turkey 1470

**Capsicum annuum**

*Anthonomus eugenii*

Florida 4532

Puerto Rico 3527

resistance 4533

Texas 4533

*Bemisia tabaci* 3988

Costa Rica 629

Chrysomelidae, Kentucky 4519

Cicadellidae, Hungary 2733



**Capsicum annuum** *cont.*

- extracts
  - insecticidal properties 8958
  - toxicity, *Tribolium castaneum* 8958
- Helicoverpa armigera* 4534
- insecticidal properties 8999
- insecticides, residues 4519, 9596
- Lepidoptera
  - damage 11832
  - Ohio 11832
- Myzus persicae* 4518
- Orius*, Canada 2537
- Ostrinia nubilalis* 10716
- pests 5508
- Scirtothrips dorsalis*, Gujarat 9818
- Thrips temporatus* 3529
- Trialeurodes vaporariorum* 8261, 9596

**Capsicum frutescens**, extracts, effects, *Callosobruchus maculatus* 9003

- Capsodes infuscatus**
  - Asphodelus ramosus*
    - damage 1739
    - Israel 795
  - ecology, population dynamics 795
- Captan**
  - effects
    - Eretmocerus debachi* 445
    - Oligota fagei* 5523
  - nontarget effects, predatory mites 9839
  - toxicity, *Phytoseiulus persimilis* 11867

**Carabidae**

- agriculture, effects 1228
- Ailanthus*, forests, India 2673
- Alberta 8375
- apples, orchards, China 8754
- arable land, Germany 1223
- Australia 158
- barley, fields, Germany 6451, 10702
- biology 7008
  - behaviour 1101, 1121, 4399, 9678, 11290
  - environmental factors 1214, 5160
- Brassica*, fields, UK 5493
- cereals
  - fields
    - Norway 2406
    - Switzerland 5160
    - UK 3427
- collection 5102
- cropping systems, effects 8375
- cultural methods, effects 11791
- distribution
  - America 5084
  - Austria 2029
  - China 3098
  - Germany 10304, 10307
  - South Asia 3122
- ecology 2394, 3075, 7944, 8289
- colonization 9283
- habitats 1114, 1121-1123, 1126-1128, 3018, 3080, 5074, 5703, 7239, 7244, 8375, 8754
- population dynamics 4399, 5439, 5545, 8810
- species diversity 5447
- statistical analysis 5453
- electrophoresis 7302
- fields
  - Belgium 203
  - habitats, Germany 9383
- figs, orchards, Honshu 5545
- forest litter, habitats, Alberta 5102
- forests
  - America 5084
  - Maryland 3080
  - Scandinavia 5620
- fungicides, effects 10702
- genetics
  - cytogenetics 158
  - karyotypes 7341
  - Germany 1122-1123, 2394
  - grasses, habitats, UK 9380
  - grasslands, Germany 1126-1127, 1228
  - groundnuts, fields, South Africa 8810
  - habitats
    - Alberta 1214
    - Germany 1101
    - Poland 536
    - UK 5074
  - herbicides, effects 1223
  - Hungary 3018

**Carabidae** *cont.*

- India 7008
- insecticides, effects 10691
- Korea Republic 11373
- lawns and turf, habitats, Tianjin 10008
- low input agriculture, effects 9843
- maize, fields, Virginia 3437
- millets, fields, Honshu 7349
- monitoring, traps 3427, 5102, 6451, 9675
- morphology 946, 3098, 4822, 4880, 7008
  - digestive system 4879
  - size 5828
- Nearctic Region 7341
- Netherlands 1114
- orchards, Slovakia 7802
- peatlands
  - UK 8289
  - USA 11349
- pesticides, effects 6451, 9675
- Pinus*, forests, Poland 5675
- Pinus sylvestris*, forests, Germany 7944
- pollutants, effects 7511
- potatoes, fields, UK 11791
- prey
  - Antheraea yamamai* 8245
  - Aphididae 5161, 7658
  - Atteva fabriciella* 2673
  - Delia radicum* 5493
  - Phthorimaea operculella* 7755
  - Rhopalosiphum padi* 2406
  - Spodoptera depravata* 10008
- radishes
  - damage 6570
  - Hokkaido 6570
- Rubus*, habitats, France 5703
- salt land, Germany 1131
- Slovakia 3075, 7511
- taxonomy 3098, 4822
- UK 7244, 9283
- weed control, effects 10385
- wheat
  - fields
    - Germany 7658, 9675
    - Switzerland 9678
    - UK 10691

**Carabodes coweetaensis**

- North Carolina 8067
- taxonomy, new species 8067

**Carabodes spiniformis**

- North Carolina 8067
- taxonomy, new species 8067

**Carabus**

- ecology 3910
- genetics, genes, ubiquitin 7361
- Italy 3910
- taxonomy, cytotoxonomy 7361

**Carabus arcensis**

- biology, behaviour, models 216
- ecology, population dynamics, models 243

**Carabus auronitens**

- Europe 1881
- genetics, genes, ubiquitin 7361
- heavy metals, effects 1308
- physiology 1881
- taxonomy, cytotoxonomy 7361

**Carabus coriaceus**

- ecology 3910
- Italy 3910

**Carabus granulatus**

- genetics, genes, ubiquitin 7361
- taxonomy, cytotoxonomy 7361

**Carabus hispanus**

- Europe 5827
- taxonomy 5827

**Carabus lafossei**, control, Gastropoda 10467**Carabus lateralis**

- Europe 5827
- taxonomy 5827

**Carabus lineatus**

- Europe 5827
- taxonomy 5827

**Carabus nemoralis**

- biology, behaviour 3050
- marking, biological tags 9392
- prey
  - invertebrates 3050
  - Lymantria dispar* 9392

**Carabus problematicus**

- biology, environmental factors 8286
- grasslands, UK 5453

**Carabus splendens**

- Europe 5827
- taxonomy 5827

**Carabus violaceus**

- genetics, genes, ubiquitin 7361
- Germany 1128
- grasslands, UK 5453
- taxonomy, cytotoxonomy 7361

**Carambola** (see *Averrhoa carambola*)**Carambolas**, commodities, *Anastrepha suspensa* 2768**Carausius morosus**

- heavy metals, effects 1308-1309
- physiology, nervous system 111, 1897, 5913, 10183

**Carbamate insecticides**

- control
  - insect pests
    - forest trees 1644
    - rice 9721
  - effects, birds 10583
  - residues
    - commodities 10575
    - detection 2061
    - determination 11402
    - fruits 642
    - milk 442
  - resistance
    - Anthonomus grandis* 9958
    - Bemisia tabaci* 10833
    - Heliothis virescens* 4256, 5111, 5296
    - Neoseiulus longispinosus* 449
  - toxicity
    - Apis mellifera* 3361
    - Steinernema carpocapsae* 7583

**Carbamate pesticides**

- degradation, water 10574
- residues, crops 468

**Carbamates**

- effects, small mammals 1376
- mode of action 2273
- residues
  - water
    - analysis 10644
    - extraction 10644
- resistance
  - Frankliniella occidentalis* 4977
  - Helicoverpa armigera* 10543

**Carbaryl**

- analysis 5112
- chemistry 8470
- control
  - Acalymma vittatum*, melons 9822
  - Acantholyda erythrocephala*, *Pinus* 394
  - Acrididae
    - lucerne 8681
    - rangelands 5446
  - Antigastra catalaunalis*, sesame 6716
  - arthropod pests, soil 3395
  - Bactrocera cucurbitae*, cucurbit vegetables 6618
  - Brevipalpus*, mandarins 2578
  - Cadra*, dates 3540
  - Chilo partellus*, sorghum 6474
  - Cornitermes cumulans*, *Brachiaria decumbens* 1463
  - Gibberifera simplicata glaciata*, *Populus ciliata* 6759
  - Helicoverpa armigera*, cowpeas 9767
  - Helopeltis antonii*, cashews 1587, 5569
  - insect pests 8480
    - apples 4547
    - cowpeas 9771
  - Lepidoptera
    - forests 3625
    - sapodillas 5563
  - Monolepta australis* 2650
  - Mythimna separata*, wheat 538, 5408
  - Neoleucinodes elegantalis*, tomatoes 9811
  - Orthoptera, grasslands 5261
  - Paranthrene robiniae*, forest trees 4686
  - Pentatomidae, rice 1460
  - Phthorimaea operculella*, potatoes 3510
  - Phyllocnistis citrella*, *Citrus* 1565
  - Pieris brassicae*, cabbages 8726



**Carbaryl cont.**

## control cont.

- Pyrrhalta luteola*, *Ulmus* 745, 4707, 4709, 4711  
*Scrobipalpus absoluta*, tomatoes 4530  
*Sitona macularius*, peas 2493  
*Sitotroga cerealella*, rice 6490  
*Stethopachys formosa*, *Epidendrum × obrienianum* 12039  
Tingidae, oil palms 4623  
*Trirhabda niidicollis*, *Chrysothamnus* 4465

## degradation

- determination 6110  
forest trees 9983  
*Rhodococcus* 4326  
soil microorganisms 11631  
water 1377

## detection 3150, 3327

## determination 411, 1312, 2299, 6304, 8565

## effects

- Acantholyda erythrocephala* 394  
*Alectoris rufa* 454  
*Ariophanta bajadera* 6837  
*Bemisia tabaci* 5297  
*Bradyrhizobium japonicum* 9623  
*Charadrius vociferus* 9608  
Coleoptera 1310  
*Daphnia pulex* 6371  
*Dendroctonus* 9586  
mammals 4316  
*Megachile rotundata* 10617  
mice 4320  
*Nilaparvata lugens* 1310  
pigeon peas 5467  
predatory insects 9771  
rats 8534  
soil  
enzymes 528  
microorganisms 2363  
soil fauna 9572  
*Stethopachys formosa* 12039

## ELISA 4238

- formulations 5261, 6474  
interactions, *Metarhizium anisopliae* 1336  
metabolism, *Dendroctonus* 9587

## mixtures

## control

## insect pests

- cowpeas 9771  
rice 9722

*Sitotroga cerealella* 6490

- effects, cotton 8839  
nontarget effects, predatory arthropods 9722  
resistance, *Aphis gossypii* 10551

toxicity, *Alectoris rufa* 8569

## nontarget effects

- Apis mellifera* 2299  
arthropods 3625  
Braconidae 7521  
mice 11631  
Neuroptera 2122  
nontarget organisms 8557  
soil fauna 3395

## removal, water 3150

## residues

- analysis 3337  
lemons 11450  
rivers 8557  
sorghum 6476  
*Vigna radiata* 9768  
water 507  
monitoring 5361

## resistance

- Aonidiella* 9890  
*Aphis gossypii* 10551-10552  
*Aphytis melinus* 5334, 7816  
*Edwardsiana crataegi* 6637  
*Helicoverpa armigera* 1327, 11970  
*Hypothenemus hampei* 5293  
*Nephotettix cincticeps* 437, 7539  
*Nilaparvata lugens* 4436  
*Phyllotreta cruciferae* 6338  
*Sogatella furcifera* 4437

## toxicity

- Aphis gossypii* 6625  
Apidae 9600

**Carbaryl cont.**

## toxicity cont.

- Apis mellifera* 3361  
aquatic organisms 7605  
carp 8527  
*Chrysoperla rufilabris* 4318  
*Cylas formicarius* 11601  
*Dendroctonus frontalis* 2703  
*Epilachna vigintioctopunctata* 10015  
fishes 1340, 8528  
*Hippodamia convergens* 8798  
*Lymantria dispar* 9571  
*Maladera matrida* 8511  
*Ptychocheilus lucius* 3376  
*Rhagoletis pomonella* 9569  
sorghum 2437  
*Spodoptera litura* 9908  
*Tenebrio molitor* 4319  
Tephritidae 7521

## with lindane

## control

- insect pests, yams 4483  
Pyralidae, sugarcane 3588, 3591  
nontarget effects, soil 11659

**Carbendazim**

- control, *Eriophyes cernuus*, *Ziziphus mauritiana* 3567

## effects

- Aphis gossypii* 3613  
*Sitophilus oryzae* 6889  
residues, *Piper betle* 7990

**Carbofuran**

- adsorption, soil 2367, 10651

## control

- Aceria macrodonis*, *Lycium chinense* 7982  
Agriotes, maize 1442  
*Amrasca devastans*, cotton 5611  
*Anthonomus grandis*, cotton 4654  
arthropod pests, soil 3395  
*Aulacophora indica*, melons 1582  
*Bemisia tabaci*, tomatoes 628  
*Chlorops oryzae*, rice 8661  
Delphacidae, rice 11748  
*Diadisa armigera*, rice 7707  
*Endoclitia jianglingensis*, *Boehmeria nivea* 11973  
*Gibberifera simplicia glaciata*, *Populus ciliata* 6759  
*Helicoverpa armigera*, cowpeas 9767  
*Holotrichia*, potatoes 11792  
*Holotrichia serrata*, *Tectona grandis* 8891  
insect pests 8480  
cassava 4483  
maize 4414  
potatoes 8711  
rice 5436, 9724  
sorghum 7689  
sugarbeet 2611, 10907  
sugarcane 11951  
Isoptera, *Eucalyptus urophylla* 2659  
*Leucinodes orbonalis*, aubergines 3526, 10827  
*Melanogromyza sojae*, soyabeans 9749  
*Ophiomyia phaseoli*  
peas 11776  
*Phaseolus* 10770  
*Orseolia oryzae*, rice 8662  
*Perileucoptera coffeella*, coffee 1622  
Pyralidae, sugarcane 1616, 3588, 3591, 6725  
*Sciothrips cardamomi*, cardamoms 7988  
*Scirpophaga excerptalis*, sugarcane 4639  
*Sesamia griseocens*, sugarcane 4637  
slugs, lucerne 3482  
*Thrips tabaci*, onions 2521  
*Tipula*, rice 3454  
degradation 5284  
*Rhodococcus* 4326  
soil 485, 498, 513, 1442  
derivatives  
toxicity, animals 3338  
translocation, *Phaseolus lunatus* 3338  
determination 8565  
effects  
coffee 2618  
Cyanobacteria 9622

**Carbofuran cont.**

## effects cont.

- Faustinus apicalis* 3131  
lentils 8696  
mammals 4316  
mycorrhizas 5356  
plant parasitic nematodes 9749  
potatoes 599  
rats 6365  
soil 2362, 6388, 6390  
microorganisms 9633  
*Somatopus* 4415  
soyabeans 7730  
formulations 598, 11572  
insecticides, interactions 491  
interactions, herbicides 2316  
metabolism  
Noctuidae 9578  
soil 491  
mixtures, control, cardamoms, *Sciothrips cardamomi* 7988  
movement, soil 413  
nontarget effects  
environment 4449  
fishes 1378  
man 10601  
*Melanoides* 3352  
natural enemies 5611  
*Porcellionides pruinosus*, assessment 11605  
soil 11659  
soil fauna 3395  
wheat 3434  
residues  
crops 11888  
detection 2061  
fishes 8551  
lemons 468  
meat, determination 1763  
*Piper betle* 7990  
potatoes 598, 8711  
rice 567  
soil 2058  
storage, effects 3315  
*Trapa natans* 10815  
water 8551  
resistance  
*Leptinotarsa decemlineata* 1333  
*Nilaparvata lugens* 4436  
*Phyllotreta cruciferae* 6338  
*Spodoptera exigua* 6327  
runoff, streams 9634  
synergists, interactions 5283  
toxicity  
aquatic organisms 5322, 7605  
arthropods 4251  
birds 9629  
*Cylas formicarius* 11601  
*Diabrotica virgifera* 8647  
fishes 11638  
*Gammarus pulex* 9634  
*Metarhizium anisopliae* 2307  
Noctuidae 9578  
*Schizaphis graminum* 7547  
*Sitophilus oryzae* 5283  
*Triclonia picea* 9557  
**Carbohydrates**, mixtures, effects, *Choristoneura occidentalis* 4746  
**Carbon dioxide**  
control  
arthropod pests, carnations 785  
*Callosobruchus chinensis*, pigeon peas, commodities 8017  
insect pests, ornamental plants, commodities 5746  
stored products pests 6869  
effects  
*Callosobruchus maculatus* 5758, 6297  
*Neodiprion lecontei* 12012  
stored products pests 5757  
mixtures  
effects, *Tetranychus urticae* 5394  
toxicity, Isoptera 9588  
nontarget effects, ornamental plants, commodities 5746  
synergism 9588  
toxicity, Isoptera 9588  
**Carbon dioxide enrichment**  
effects  
Aphidoidea 10700  
Saturniidae 10936



**Carbosulfan**  
control  
    *Hylobius abietis*, *Pseudotsuga menziesii* 1704  
insect pests  
    maize 1435, 4414  
    soyabeans 1473  
Isoptera, tea 699  
    *Madurasia obscura*, *Vigna mungo* 6890  
    *Mythimna separata*, wheat 538  
effects, *Somaticus* 4415  
formulations 11572  
nontarget effects, effects, tea 699  
residues, peaches 10859  
resistance, *Lissorhoptrus oryzophilus* 6340

**Carboxybenzofurans**, synthesis 5291

**2-Carboxybenzofurans**, toxicity, *Cylas formicarius* 5291

**Carcelia illota**  
fields, Orissa 4660  
hosts, *Helicoverpa armigera* 1483, 4660

**Carcelia lucorum**  
distribution, UK 4095  
ecology, population dynamics 4095  
hosts, *Callimorpha dominula* 4095

**Carcelia matsukarenhae**  
China 1219  
hosts, *Dendrolimus punctatus* 1219

**Carcinophoridae**, morphology 5844

**Cardamine flexuosa**, *Plutella xylostella* 2749

**Cardamoms** (*Elettaria cardamomum*)  
    *Artocoris chorista* 1735  
insect pests  
    control, biological control 809  
    Nepal 809  
    *Jamides alecto* 1733  
    *Sciothrips cardamomi*, Karnataka 7988-7989

**Cardiaspina albitextura**, *Eucalyptus*, resistance 6752

**Cardiaspina retator**, *Eucalyptus*, resistance 6752

**Cardiastethus exiguus**  
biology, behaviour 1991  
prey, insect pests 1991

**Cardinalis cardinalis**, pesticides, consumption 11645

**Cardiochiles diaphaniae**, hosts, *Diaphania* 4105

**Cardiochiles nigriceps**  
cotton, fields, Florida 4667  
hosts  
    *Heliothis virescens* 4773, 10587  
    Noctuidae 4667  
insecticides, toxicity 10587

**Cardiocondyla nuda**  
biology, behaviour 5140  
Canary Islands 5140

**Cardiophorinae**, morphology, reproductive organs 7007

**Cardiophorus nothus**  
predators 611  
sweet potatoes  
    damage 611  
    Honshu 611

**Carduus acanthoides**  
control, biological control 2218, 6846  
insects, Germany 8986  
natural enemies, North Carolina 2218  
    *Rhinocyllus conicus*, Argentina 6846

**Carduus nutans**  
control, biological control 831, 2218  
insects, Germany 8986  
natural enemies  
    New South Wales 831  
    North Carolina 2218

**Carduus thoermeri**, Coleoptera 2764

**Carenum anthracinum**, morphology 4878

**Carenum elegans**, morphology 4878

**Carex**  
    *Neolema cordata* 917  
    *Thrips konoii* 919  
    *Thripsaphis balli*, China 6956

**Carex heliophila**, extracts, antifeedants, Acrididae 7719

**Caribbean**  
    *Bemisia tabaci* 4209  
    Termitidae 5797

**Caribbean cont.**  
    *Toxoptera citricidus* 11368

**Carica papaya** (see Pawpaws)

**Caricea**  
attractants 6396  
Hawaii 6396

**Caridae**, taxonomy, books 4816

**Carlina**, Palloptera, Norway 7289

**Carmentia foraseminis**  
biology, behaviour 8859  
food plants, Panama 8081  
    *Gustavia superba*, Panama 8859  
taxonomy, new species 8081

**Carmentia haematica**  
ecology, population dynamics 5716  
    *Gutierrezia*, Argentina 5716

**Carnations** (*Dianthus caryophyllus*)  
    *Helicoverpa armigera*  
        Czech Republic 10820  
        damage 10820  
insect pests, Mexico 1708  
insecticides  
    degradation 4291  
    residues 8947  
pest control 785

**Carneiocephala floridana**  
ecology, population dynamics 4777  
food plants, Florida 4777  
parasitoids 4777

**Carobs** (*Ceratonina siliqua*)  
    *Apomyelois ceratoniae*, Turkey 1580

**Carp**  
insecticides  
    effects 452, 8547, 11615  
    residues 8530, 8597  
    toxicity 8527, 10607  
pesticides, effects 1352, 7560

**Carphoborus andersoni**, distribution, Ontario 11364

**Carpinus betulus**  
Hymenoptera, Austria 5028  
insect pests  
    damage 7908  
    France 7908  
    *Taleporia tubulosa*, Austria 5028

**Carpinus japonica**, *Apotomis flavifasciana*, Japan 9064

**Carpinus orientalis**  
forests, *Trichogramma telengai*, Ukraine 1653  
    *Tortrix viridana*, Ukraine 1653

**Carpocorini**  
India 4828  
morphology 4828  
Pakistan 4828  
taxonomy 4828

**Carpoglyphus lactis**  
biology, behaviour 98  
pheromones 98

**Carpophilus**  
barley, commodities, Montana 5741  
    *Dalbulus quinquevittatus*, interactions 11761  
    predators 5741

**Carpophilus antiquus**  
ecology, population dynamics 4030  
Illinois 4030

**Carpophilus davidsoni**  
apricots, New South Wales 1546  
biology  
    behaviour 7060  
    phenology 7822  
diets 7060  
ecology, population dynamics 7822  
monitoring, traps 7822  
peaches, New South Wales 7060  
pheromones 1546, 7060  
stone fruits, New South Wales 7822

**Carpophilus freemani**  
dates, California 6674  
ecology, population dynamics 4030  
Illinois 4030  
pheromones 6674

**Carpophilus fumatus**  
Annona  
    Florida 4601  
    pollination 4601

**Carpophilus hemipterus**  
apricots, New South Wales 1546  
biological control agents, evaluation 4214

**Carpophilus hemipterus cont.**  
biology  
    behaviour 7060  
    phenology 7822  
dates, California 6674  
ecology, population dynamics 7822  
fungi, extracts, effects 4229  
monitoring, traps 7822  
mycotoxins, antifeedants 3414  
pathogens 4214  
peaches, New South Wales 7060  
pheromones 1546, 6674, 7822  
stone fruits, New South Wales 7822  
    *Verticillium lecanii*, toxins, effects 1260

**Carpophilus humeralis** (see *Urophorus humeralis*)

**Carpophilus lugubris**  
dates, California 6674  
ecology, population dynamics 4030  
Illinois 4030  
pheromones 6674

**Carpophilus mutilatus**  
Annona  
    Florida 4601  
    pollination 4601  
apricots, New South Wales 1546  
biology  
    behaviour 7060  
    phenology 7822  
dates, California 6674  
ecology, population dynamics 7822  
food plants, Italy 11845  
monitoring, traps 7822, 11845  
peaches, New South Wales 7060  
pheromones 1546, 6674, 7822  
stone fruits, New South Wales 7822

**Carpophilus obsoletus**  
dates, California 6674  
pheromones 6674

**Carpophthorella nigrifascia**  
distribution, Australia 8315  
taxonomy, synonyms, *Carpophthorella setifrons* 8315

**Carpophthorella setifrons**, taxonomy, synonyms, of *Carpophthorella nigrifascia* 8315

**Carposina niponensis** (see *C. sasakii*)

**Carposina nipponensis**, biology, behaviour 3035

**Carposina sasakii**  
apples, China 8755  
biology  
    behaviour 10889  
    life cycle 8768  
control  
    chemical control 8755  
    integrated control 10839

**Crataegus pentagyna**  
China 8768  
damage 8768  
ecology, population dynamics 10887  
forecasting 10887  
fruit trees, Jiangsu 10839  
monitoring, traps 10889  
    *Ziziphus sativa*, China 10887, 10889

**Carrots** (*Daucus carota*)  
    *Cavariella aegopodii*, Poland 1495  
cell lines, insecticides, metabolism 1367  
commodities, insecticides, residues 10604  
fields, Coccinellidae, Poland 1495  
insecticides, residues 3398, 3517  
    *Listronotus oregonensis*  
        Nova Scotia 607  
        Quebec 10789  
pesticides, detection 9393

**Psila rosae**  
    British Columbia 1496  
    Denmark 606  
    *Systena argentinensis*, Argentina 182

**Carsidaridae**, Nicaragua 10295

**Cartap**  
control  
    *Anthonomus grandis*, cotton 4654  
    *Chilo infuscatellus*, sugarcane 11948  
    *Dicladispa armigera*, rice 7707  
    *Scrobipalpus absoluta*, tomatoes 2535  
    *Tetranychus kanzawai*, grapes 5541  
nontarget effects, *Phytoseiulus persimilis* 5541



**Cartap** *cont.*  
resistance

- Chilo suppressalis* 5295  
*Cnaphalocrocis medinalis* 10730  
 Lepidoptera 6339  
*Plutella xylostella* 9553, 10548  
*Spodoptera exigua* 6327

## toxicity

- Cnaphalocrocis medinalis* 11744  
 insect pests 7541  
*Steinernema carpocapsae* 7583

**Cartap hydrochloride**, resistance, *Plutella xylostella* 11594**Carthamus tinctorius** (see Safflower)**Cartodere constricta**

- crops, commodities 9015  
 distribution, Greece 9015  
 morphology 9015

**Carulaspis juniperi**

- ornamental conifers  
 Hungary 8901  
 varietal susceptibility 8901

**Carum carvi**, pest control 8954**Carvalhofulvius**, taxonomy, new genus 11126**Carvalhofulvius gigantochloae**

- biology 11126  
*Gigantochloa scortechinii*, habitats, Malaysia 11126  
 taxonomy, new species 11126

**Carvalhoisca**

- Jacquinia*, Mexico 11104  
 taxonomy, new genus 11104

**Carvalhoisca jacquiniae**

- Jacquinia*, Mexico 11104  
 taxonomy, new species 11104

**Carvalhoisca michoacanensis**

- Jacquinia*, Mexico 11104  
 taxonomy, new species 11104

**Carvone**

- phytotoxicity, wheat, seeds 11723  
 toxicity, *Deroceras reticulatum* 11723  
 (R)-Carvone, effects, *Hylobius pales* 2258  
 (S)-Carvone, effects, *Hylobius pales* 2258

**Carya**

- Lymantria dispar*  
 damage 5642  
 West Virginia 5642  
*Monellia caryella*, Israel 5398

**Carya cordiformis**

- Oncideres cingulata*  
 damage 11983  
 Missouri 11983

**Carya illinoensis** (see Pecans)**Carya ovata**

- Oncideres cingulata*  
 damage 11983  
 Missouri 11983

**Carya pecan** (see Pecans)**Caryedon serratus**

- Acacia tortilis*, Pakistan 8850  
 biology 2680  
 control, chemical control 6870  
 forest trees 8890  
 fumigants, toxicity 8890  
 groundnuts, commodities 6870  
 parasitoids 8850  
*Tamarindus indica*, Karnataka 2680

**Caryedon serratus-palaestinus**

- Fabaceae, commodities, Delhi 10042  
 parasitoids 10042

**Caryocar brasiliense**, extracts, effects, *Atta sexdens* 7999**Caryocolum**, taxonomy 8072**Caryodendron orinocense**, *Panacea prola*, Colombia 2601**Cascade** (see Flufenoxuron)**Cashews** (*Anacardium occidentale*)

- Acrocercops syngamma*, damage 6704  
*Anigraea albomaculata*  
 damage 1588  
 Kerala 1588  
 arthropod pests, India 678  
 commodities, *Oryzaephilus mercator* 2770

- Helopeltis antonii*  
 Karnataka 1587, 4615  
 Maharashtra 5569  
 resistance 4615

- Helopeltis perniciosa*, Northern Territory 11920

**Cashews** *cont.*

- insect pests, Northern Territory 11921  
 orchards, *Oecophylla smaragdina*, Northern Territory 11921  
*Orthaga exvinacea*  
 resistance 10894  
 Tamil Nadu 10894  
 plantations, *Geocoris borealis*, Northern Territory 3752  
 reports, India 9021  
*Tinda indica*, Andaman and Nicobar Islands 1586

**Cassava** (*Manihot esculenta*)

- Acar 2512  
*Aleurodicus dispersus*, Nigeria 6568  
*Amblyseius manihoti*, Brazil 4833  
*Amblyseius villacarmelensis*, Colombia 4833  
 Aphididae, Congo 6565  
 arthropod pests 4483  
 Zambia 6567  
*Bemisia tabaci*, Cote d'Ivoire 11796  
*Cephus erythrocephalus*, Ecuador 2516  
 commodities  
 Coleoptera 843, 5743  
 insect pests 4483  
*Erinnyis ello*, Mexico 10790  
 extracts, effects, Coleoptera 843  
 fields

- beneficial arthropods, Congo 6565  
*Cladocchaeta pytelophila*, Ecuador 2516

- Hyperaspis notata*, Colombia 2514  
*Phenacoccus manihoti*, natural enemies, Nigeria 1498

## habitats

- Amblyseius limonicus*  
 California 5478  
 South America 5478

## insect pests 6566

- reports 2797  
 insecticides, effects 608  
 intercropping, maize, pest control 5417  
 Isoptera

- Nigeria 5471  
 resistance 5471  
 yield losses 5471

*Mononychellus progresivus*

- Africa 4497  
 South America 4497

*Mononychellus tanajou* 11702

- Africa 2505, 2511  
 biological control, conferences 2811  
 Colombia 5479  
 damage 2509-2510  
 Kenya 2506, 2510  
 sampling 2508

*Phenacoccus herreni*, Colombia 2514*Phenacoccus manihoti* 4498

- Congo 8712  
 Nigeria 1498  
 resistance 5480, 8712  
 varietal susceptibility 609  
 Zimbabwe 8713

*Pseudococcus mandio*, Santa Catarina 4499*Schistocerca gregaria*, Benin 11797secretions, *Amblyseius limonicus* 610

## Tetranychidae

- Africa 9788  
 Congo 8714  
 yields 8714

- Tetranychus urticae*, Colombia 2515  
 wood, *Prostephanus truncatus* 1771, 5739

*Zonocerus variegatus* 608

## Benin 10791

**Cassia**, extracts, toxicity, Coleoptera 6864**Cassia alata**

- Catopsilia pomona* form *crocale*, Tamil Nadu 4762  
 habitats, *Cotesia glomerata*, Tamil Nadu 4762

**Cassia occidentalis**

- extracts  
 effects, *Crocidolomia binotalis* 8960  
 insecticidal properties 8960

**Cassia siamea**, *Ferrisia virgata*, Nigeria 8848**Cassida indicola**

- biology, reproduction 948

**Cassida indicola** *cont.**Convolvulus*, India 948**Cassida rubiginosa**

- biology, behaviour 6854  
*Carduus thormeri* 2764  
*Cirsium arvense*  
 Maryland 6854  
 Virginia 6845, 7360  
 control, *Cirsium arvense*, evaluation 6845  
 parasitoids 6854, 7360  
 plant pathogens, transmission 2764

**Cassida viridis**

- Mentha aquatica*, UK 7994  
 morphology, pupae 3782

**Cassiope tetragona**, *Gynaephora groenlandica*, Canada 11302**Castanea**, *Dryocosmus kuriphilus*, Japan 5657**Castanea crenata**, Aphididae, Honshu 2098**Castanea dentata**, *Synhedon castaneae*, Connecticut 253**Castanea pumila**

- Harmandia amisae*  
 galls 5653  
 North America 5653

**Castanea sativa** (see Chestnuts)

- insect pests, Switzerland 749

**Castanopsis**, *Diplopsocus*, Asia 14**Castanopsis cuspidata**

- Acrocercops melanoplecta*, Japan 6978  
 habitats, *Mestocharella tenuicornis*, Japan 6978

**Castanopsis delavayi**, *Asterodiaspis bififormis*, Yunnan 5806**Castella tortuosa**, extracts, antifeedants, *Heliothis virescens* 8608**Castnia licus** (see *Castniomera licusare*)**Castniomera licusare**

- biochemistry, haemolymph 10903  
 sugarcane, Brazil 10903

**Castolus**

- Phaseolus*, fields, El Salvador 8694  
 prey, *Epilachna varivestis* 8694

**Castor beans** (see *Ricinus communis*)**Castor oil**, effects, *Tribolium castaneum* 2786**Casuarina**

- books 2825  
 insect pests 2825

**Casuarina equisetifolia**

- insect pests, Brazil 3629  
*Nasutitermes rippertii* 2779

**Cataglyphis**, biology, behaviour 283-284**Cataglyphis bicolor**

- Cataglyphis hanna*, interactions 8051  
 prey, *Bledius* 11438  
 Tunisia 8051

**Cataglyphis cursor**, biology, behaviour 7194**Cataglyphis fortis**

- Algeria 6151  
 biology, behaviour 285, 6151

**Cataglyphis hanna**

- Cataglyphis bicolor*, interactions 8051  
 taxonomy, new species 8051  
 Tunisia 8051

**Catalogues**, Eriophyoidea 3727**Catantopidae**, Guangdong 7327**Catantopinae**

- Australia 5163  
 ectoparasites 5163

**Catantops axillaris** (see *Diabolocantops axillaris*)**Cathaica fasciola**, morphology 9457**Catharanthus roseus**, *Circulifer opacipennis* 1569**Catharsius tricornutus**

- ecology, competition 4024  
 South Africa 4024

**Cathartus quadricollis**

- biology, life cycle 836  
 food plants 836  
 maize, commodities, Colombia 11050

**Catocala**, predators 3037**Catogenus cayman**, distribution, Dominican Republic 11135**Catogenus slipinskii**

- distribution, Dominican Republic 11135  
 taxonomy, new species 11135

**Catolaccus aeneoviridis**, hosts, *Platyptilia carduidactyla* 5725



**Catolaccus cyanoideus**  
  *Bromus inermis*, habitats, Indiana 2475  
  distribution, Indiana 2475  
  hosts, *Aleiodes stigmator* 2475

**Catolaccus grandis**  
  cotton, fields, Texas 6740  
  cultural methods, effects 6740  
  hosts, *Anthonomus grandis* 322, 6740  
  rearing techniques 322

**Catopsilia crocale** (see *C. pomona* form *crocale*)

**Catopsilia florella**  
  pathogens 4174  
  predators 8435  
  Reunion 8435

**Catopsilia pomona**  
  India 9471  
  pathogens 9471

**Catopsilia pomona form crocale**  
  *Cassia alata*, Tamil Nadu 4762  
  India 9471  
  natural enemies 4762  
  pathogens 9471

**Catopsilia pyranthe**  
  India 9471  
  pathogens 9471

**Catopsilia thauruma**  
  pathogens 4174, 8435  
  predators 8435  
  Reunion 8435

**Cats, pesticides, effects 3384**

**Cattle**  
  insecticides  
    residues  
      determination 11402  
      models 4450  
  pesticides, residues 3388

**Cauliflower mosaic caulimovirus**  
  vectors  
    Aphididae 6262  
    insects 2803

**Cauliflowers (Brassica oleracea var. botrytis)**  
  Aphididae, Delhi 11811  
  *Bemisia argentifolii*, resistance 10806  
  *Delia radicum*, Belgium 11807  
  habitats, parasitoids, Hokkaido 6588  
  *Hellula undalis*  
    Indian Punjab 9795  
    resistance 9795  
  insecticides  
    metabolism 2523  
    residues 618, 3513, 8616  
  Noctuidae, Belgium 11809  
  *Pieris brassicae* 5500  
    Himachal Pradesh 618  
  *Plutella xylostella*  
    Belgium 11808  
    Hokkaido 6588  
    India 8729  
    Pakistan 6586  
  *Spilartia obliqua*  
    Delhi 5499  
    resistance 5499  
  *Spodoptera litura*, Uttar Pradesh 6406

**Caulophyllum robustum**  
  *Epilachna yasutomii* 4493  
  interactions 4778  
  Japan 4778  
  resistance 4778

**Caviarella, biology, behaviour 8250**

**Caviarella aegopodii**  
  biology, behaviour 8250  
  carrots, Poland 1495  
  *Foeniculum vulgare*, Israel 5398  
  parasitoids 5398  
  predators 1495  
  reproduction, biology 951

**Caviarella salicicola**  
  insecticides, resistance 8498  
  vegetables, Shanghai 8498

**Cavalerius saccharivorus**  
  biology, reproduction 1981  
  ecology, distribution 7878  
  genetics, polymorphism 1963  
  Ryukyu Archipelago 1981  
  sampling 7878  
  sugarcane, Jiangxi 7878

**Cavalerius sweeti**  
  control, chemical control 11951  
  sugarcane, Haryana 11951

**Cayratia clematidea, Theretra latreilli, Australia 3667**

**Cayratia japonica, Aphis gossypii, Japan 10288**

**Cecidomyia castaneae, taxonomy, to Harmandia 5653**

**Cecidomyiidae**  
  cassava, fields, Congo 6565  
  cocoa  
    Costa Rica 4646  
    pollination 4646  
  distribution  
    Czech Republic 5085  
    Turkmenistan 5094  
    Yugoslavia 1742  
  ecology, population dynamics 1597, 3680, 7759  
  *Lythrum*  
    Europe 1826  
    galls 1826  
  mushrooms  
    damage 3680  
    India 3680  
  orchards, Switzerland 8750  
  parasitoids 1753, 1826  
  plant extracts, attractants 4646  
  potatoes, habitats, Hokkaido 7759  
  prey  
    Aphididae 6565, 7759  
    *Brachycaudus helichrysi* 1597  
  *Rhamnus cathartica*  
    Austria 1826  
    galls 1826  
  sunflowers, fields, Yugoslavia 1597  
  taxonomy, books 8045  
  wild plants, Yugoslavia 1742  
  zoogeography 5085

**Cecidomyiinae**  
  cereals, Denmark 2409  
  ecology, seasonal abundance 2409

**Cecidophyopsis alpinum**  
  *Ribes alpinum*, Finland 5534  
  taxonomy, new species 5534

**Cecidophyopsis aureum**  
  *Ribes aurea*, Poland 5534  
  taxonomy, new species 5534

**Cecidophyopsis grossulariae**  
  *Ribes* 5534  
  taxonomy 5534

**Cecidophyopsis ribis**  
  black currants  
    Poland 1554  
    resistance 7829  
  control 1554  
  morphology, digestive tract 7828  
  *Ribes* 5534  
    certification 10862  
  taxonomy 5534

**Cecidophyopsis selachodon**  
  *Ribes* 5534  
  taxonomy 5534

**Cecropia tessmanii, Formicidae, symbiosis 6770**

**Cedar (see Cedrus)**

**Cedar pine (see Pinus cembra)**

**Cedrela fissilis, insect pests, Brazil 3629**

**Cedrela odorata**  
  *Hypsipyla grandella*  
    Cuba 1652  
    damage 1652

**Cedrus, pollen, Euseius finlandicus 4121**

**Cedrus deodara**  
  books 5680  
  *Dioryctria abietella*, India 5663  
  forests, beneficial insects, India 5663  
  *Idiocerus*, Himachal Pradesh 6980  
  India 5680  
  insect pests, control 5680

**Ceiba pentandra, Caio richardsoni, Mexico 1854**

**Celeriac (Apium graveolens var. rapaceum)**  
  Belgium, reports 2790  
  *Psila rosae*, Belgium 2790

**Celery (Apium graveolens)**  
  Aphididae  
    California 10808  
    Italy 3521  
  *Aphis helianthi*, Michigan 3520  
  furanocoumarins, effects, *Spodoptera exigua* 11582  
  growth regulators, residues 1511

**Celery cont.**  
  insecticides  
    residues 3513, 9596  
    uptake 6593  
  *Liriomyza huidobrensis*  
    California 10809  
    damage 10809, 11816  
    Italy 11816  
  *Liriomyza trifolii* 10275  
    Japan 10355  
  pest control, Netherlands 7779  
  *Trialeurodes vaporariorum* 9596

**Cell culture**  
  insecticides 6128  
  *Nasonia vitripennis* 159  
  reviews 8329

**Cell cultures, Spodoptera frugiperda 958**

**Cell lines**  
  *Antheraea pernyi* 1867  
  *Bombyx mori*  
    culture techniques 269  
    pathogens 269, 7455  
  *Choristoneura fumiferana*, pathogens 3265  
  *Drosophila*, biochemistry, cell ultrastructure 4968  
  *Drosophila melanogaster* 2981  
  *Helicoverpa zea*, pathogens 2179, 9493  
  insect pests, pathogens 8423  
  insects, pathogens 6324  
  Lepidoptera 1935  
    biochemistry 8171  
    insect growth regulators, effects 9554  
    pathogens 373, 2163, 2172, 3269, 4191, 8442  
  *Leptinotarsa decemlineata* 8338  
  *Lymantria dispar*, pathogens 5220, 10408  
  Noctuidae  
    genetics, genetic engineering 9236  
    pathogens 11512  
    toxins, effects 4200  
  *Opodiphthera eucalypti*, pathogens 5205  
  *Plodia interpunctella* 2898  
  *Spodoptera exigua*, pathogens 9489  
  *Spodoptera frugiperda* 7100, 11182  
    *Bacillus thuringiensis*, toxins, effects 3275  
    biochemistry, secretions 3829  
    enzymes, production 5242  
    genetics, gene transfer 2985  
    pathogens 1255, 2052, 2054, 2080, 2165, 2968, 3137, 4148, 4906, 6249, 6252-6253, 7095, 8426, 9507, 9509, 10153, 10353, 10424, 10427, 11492, 11496, 11533  
  *Spodoptera litura*, pathogens 7462  
  *Tipula paludosa*, pathogens 2171  
  *Trichoplusia ni*, pathogens 4198  
  *Celosia argentea*, *Bemisia tabaci* 3988

**Celosterna scabratator (see Cerosterna scabratator)**

**Celtis australis**  
  *Aceria bezzii*  
    damage 752  
    Italy 752

**Celtis sinensis**  
  *Celtisaspis usubai*, Honshu 7000  
  *Coccus pseudomagnoliarum*, California 8864  
  *Oligomerismus shandongensis*, Shandong 1830  
  *Sinishivaphis koreana*, Korea Republic 6964

**Celtis tenuifolia, Ontario 818**

**Celtisaspis usubai**  
  *Celtis sinensis*, Honshu 7000  
  morphology 7000

**Celypha pseudolarixicola**  
  Hunan 10675  
  pheromones 10675

**Celypha pseudolexicola (see C. pseudolarixicola)**

**Cemus quilicui, taxonomy, new species 692**

**Cenopalpus pulcher, predators 8241**

**Centaurea**  
  insects, Europe 1225  
  *Isocolus*, galls 1225

**Centaurea calcitrapa, Bangasternus orientalis, Greece 826**



- Centaurea diffusa***  
biological control agents, evaluation 828  
*Cyphocleonus achates* 828
- Centaurea jacea*, *Uroleucon jaceae*** 7176, 12060
- Centaurea maculosa***  
biological control agents, evaluation 828  
*Cyphocleonus achates* 828  
extracts, effects, Lepidoptera 4353  
insects 1755
- Centaurea solstitialis***  
*Bangasternus orientalis*, Greece 826  
control, biological control 2750, 8977  
*Larinus curtus*, Greece 8977  
natural enemies  
Italy 5729  
resistance 5729  
USA 2750, 11025
- Centaurea vallesiaca***, extracts, effects, Lepidoptera 4353
- Central America**  
*Bemisia tabaci* 4209  
beneficial insects 7335  
*Citrus*, *Toxoptera citricidus* 4591  
forests, Carabidae 5084  
*Fulvius* 1848  
Termitidae 5797
- Central Europe**  
*Centaurea*, insects 1225  
Thysanoptera 3779
- Centromerus minutissimus***  
taxonomy, new species 5  
wheat, fields, UK 5
- Cenus quilicii*, *Pennisetum clandestinum***, Reunion 692
- Cephalia***  
control, chemical control 1644  
forest trees, Poland 1644
- Cephalcia abietis***  
biology, environmental factors 5066  
Germany 5066  
pathogens 4180, 9492
- Cephalcia arvensis***  
biology, development, models 4736  
control, biological control 5677  
natural enemies 5677  
*Picea abies*, Italy 4736, 5677, 6796, 10970
- Cephalcia fallenii***  
pathogens 7956  
*Picea abies*, Poland 7956
- Cephalcia isschikii***  
ecology, population dynamics 8919  
pathogens 8919  
*Picea jezoensis*  
damage 8919  
Japan 8919  
outbreaks 8919
- Cephalophora tropica***, hosts, *Spodoptera littoralis* 10420
- Cephalonomia stephanoderis***  
biology  
development 2124  
environmental factors 2124, 10271  
control, *Hypothenemus hampei*, coffee 6728  
hosts, *Hypothenemus hampei* 2124, 3600, 10271  
morphology 1863
- Cephalonomia utahensis***  
hosts, Coleoptera 8913  
*Pinus radiata*, habitats, California 8913  
plant pathogens, transmission 8913
- Cephalopoda***, insecticides, residues 471
- Cephalosporium***, control, *Zeuzera pyrina*, evaluation 3274
- Cephalotaxus fortunei*, *Metasequoia miris carvalhoi***, Hubei 11125
- Cephus erythrocephalus***  
cassava, Ecuador 2516  
*Cladochaeta pytelophila*, interactions 2516
- Cephrenes augiades sperthias***, Palmae, Victoria 10995
- Cephus***, cereals, Syria 11714
- Cephus cinctus***  
biology, overwintering 6432  
parasitoids 6432  
wheat, resistance 6432
- Cephus columba***, insecticides, effects 2291
- Cerace stipitata***  
biology, environmental factors 9896  
subtropical tree fruits, China 9896
- Ceraeochrysa cubana***  
biology  
environmental factors 1069  
life cycle 1069  
growth regulators, toxicity 4324  
prey, insect pests 1069
- Ceralure***, attractants, *Ceratitis capitata* 4367
- Cerambycidae**  
Asia 6942, 6946  
biology 2030  
Chile 5095
- Citrus***  
damage 9889  
Hunan 9889
- Dicorynia guianensis***  
damage 6771  
French Guiana 6771  
distribution  
Africa 2030  
Bahamas 9370  
Germany 8311  
Norway 1692  
Saudi Arabia 2043  
ecology, habitats 11977  
ectoparasites 8065  
Europe 6942, 6946  
food plants 3530  
forest trees  
Chile 5629  
Germany 11977  
genetics, cytogenetics 5973  
Nicaragua 10315  
*Pinus sylvestris*, Norway 1692  
taxonomy 2043, 6946, 6957  
new species 6942
- Ceraphron***  
hosts, *Strigina bifida* 5689  
*Magnolia biloba*, habitats, Zhejiang 5689
- Cerastium alpinum***  
Diptera  
Norway 5705  
pollination 5705
- Cerataphis brasiliensis***  
parasitoids 11445  
South East Asia 11445
- Cerataphis fransseni***  
biology, caste 4765  
*Syrax benzoin*, galls 4765
- Cerataphis palmae*** (see *C. variabilis*)
- Cerataphis variabilis***  
ecology, population dynamics 6841  
*Raphia*, Nigeria 6841
- Ceratitis capitata***  
America 5374, 6285  
attractants 4367, 4378, 7632  
*Averrhoa carambola*, commodities 10030  
*Bactrocera dorsalis*, interactions 9940  
baits 4366  
biochemistry  
cuticle 8172  
enzymes 962, 3814, 4920  
hydrocarbons 2053  
immune system 4932  
proteins 2914  
biology 1548  
behaviour 3844, 4386, 5045, 5548, 7849, 9940, 11299  
development 9155  
reproduction, models 2075  
California 7506  
chemosterilants, effects, reviews 177
- Citrus***  
Greece 7849  
South Africa 667  
clementines, Italy 10878  
coffee, USA 9940  
control 667, 1295, 5746  
chemical control 1548  
controlled atmospheres 10030  
hot air treatment 10029  
integrated control 10878  
mating disruption 8464  
trapping 2568, 7849  
diets 2048, 9155  
ecology, sex ratio 7158  
Egypt 1272  
food plants, Greece 4386  
fruits 10873
- Ceratitis capitata* cont.**  
fruits cont.  
Costa Rica 5548  
Greece 977  
genetics 3002  
chromosomes 1947, 3883  
development 11236  
DNA 1049  
genetic markers 169  
genetic variation 6010  
genome analysis 4995  
mitochondrial DNA 8204  
mutations 8464  
population genetics 10233  
proteins 8234  
restriction mapping 11256  
strains 11240
- grapes  
control, chemical control 2568  
South Africa 2568, 11883  
growth regulators, effects 4248  
Guatemala 1295, 4366  
Hawaii 4367, 4378, 5374, 7521  
identification 2053  
insecticides  
residues 3138  
toxicity 5697, 7521, 7529  
Mediterranean Region 10233  
monitoring, traps 4367, 5548-5549, 6285, 7506, 7840, 11883, 11893  
morphology, reproductive organs 936  
oranges, Greece 11893  
ornamental plants, commodities 5746  
parasitoids 6201, 7521, 9434, 9940, 11173  
pathogens 6224  
pawpaws 5696  
commodities 10029  
peaches, Italy 1548  
pheromones 4363, 5374, 9653, 11299  
physiology  
amino acids 2048  
development 5852  
nutrition 977, 5871  
pheromones 3909  
reproduction 3844
- plant extracts  
attractants 5378  
effects 5696  
toxicity 5697  
plant pathogens, transmission 5738  
Poland, quarantine 1301  
predators 4386, 7849  
pressure treatment, effects 11539  
quality controls 1295  
radiation, effects 3909  
rearing techniques 1169, 9155  
Reunion 5374  
subtropical fruits  
commodities 8778  
Goias 7840  
Israel 8778  
Switzerland 5374  
transmission, plant pathogens 1272  
*Verticillium lecanii*, toxins, effects 1260
- Ceratitis rosa***  
*Citrus*, South Africa 667  
control 667  
trapping 2568
- grapes  
control, chemical control 2568  
South Africa 2568, 11883  
monitoring, traps 5549, 11883
- Ceratocystopsis ranaculosus***  
arthropods, phoresy 8296  
*Dendroctonus frontalis*, interactions 9347
- Ceratocystis ulmi*** (see *Ophiostoma ulmi*)
- Ceratonia catalpae***, biology 9282
- Ceratonia siliqua*** (see Carobs)  
*Tribolium castaneum* 8890
- Ceratopogonidae**  
cocoa  
Costa Rica 4646  
pollination 4646  
insecticides, effects 7615  
plant extracts, attractants 4646  
Spain 9738
- Ceratopogon***  
*Ficus*, America 9117  
morphology, larvae 9117



*Ceratasmira flavescens* (see *Conura camescens*)  
**Ceratopsolen galili**  
 ecology 672  
*Ficus sycomorus*, Southern Africa 672  
**Ceratopsolen marchi** (see *C. solmsi marchi*)  
**Ceratopsolen solmsi marchi**  
 biology, behaviour 10364  
*Ficus hispida*  
 Kerala 10364  
 pollination 10364  
**Ceratovacuna japonica**  
 biology, behaviour 6062  
 Japan 6062  
*Styrax japonica*  
 galls 6774  
 Honshu 6774  
**Ceratovacuna lanigera**  
 predators 329, 2606  
 sugarcane, Taiwan 2606  
**Ceratovacuna nekoashi**, clones, differentiation 3134  
**Ceratovacuna silvestrii**, ecology, environmental factors 11341  
**Cerceris**  
 Madagascar 42  
 prey, *Mylascopus* 42  
**Cerceris arenaria**  
 biology, behaviour 9293, 11325  
 UK 9293, 11325  
**Cercidium australe**  
 insects  
 Argentina 2102  
 pollination 2102  
**Cercidium floridum**  
 Bruchidae, USA 4766  
*Stator limbatus* 4776, 6033  
**Cercidium microphyllum**  
 Bruchidae, USA 4766  
 insect pests  
 Arizona 7926  
 damage 7926  
*Stator limbatus* 4776, 6033  
**Cercis canadensis**, *Enchenopa binotata*, Kentucky 5661  
**Cerconota**  
*Eucalyptus cloeziana*  
 damage 7913  
 Minas Gerais 7913  
**Cerconota anonella**  
 Annona  
 Dominican Republic 11908  
 South America 11908  
*Annona muricata*, Ceara 4599  
 Annonaceae, Amazonas 8794  
 control, physical control 4599  
 ecology, population dynamics 11908  
**Cercopidae**  
*Brachiaria*  
 Colombia 7720  
 resistance 7720  
 control, cultural control 7720  
 ecology 4022  
 grasses 4022  
**Cercopoidea**, ecology 4022  
**Cereal grains**  
 Australia, reports 8029  
 Coleoptera 11040  
 South Carolina 4809  
 commodities, pest control, expert systems 3143  
*Pyemotes ventricosus*, Italy 6879  
 insect pests  
 Australia 3143  
 Belgium 10035  
 sampling 10034  
 USA 2772  
 insecticides, residues, analysis 10331  
 pest control 846, 8018  
 India 847, 1781  
 storage mites, Italy 6879  
**Cereals**  
 Aphididae 5161, 7650  
 Chile 9668  
 Czech Republic 6422  
 economic thresholds 9541  
 Germany 8625  
 Poland 3091  
 resistance 1878, 9684  
 Spain 11713

Aphididae *cont.*  
 UK 3427, 10687  
 arthropod pests, control, chemical control  
 2400  
*Chilo partellus* 1419  
 commodities  
 arthropod pests 12082  
*Callosobruchus maculatus* 3708  
 Coleoptera, Yugoslavia 3700  
 ecology, books 8036  
 fumigation, books 5774  
 insect pests, ecology 3713  
 insecticides, residues 4805  
*Leptinotarsa decemlineata* 10050  
 pesticides, residues, extraction 8577  
 stored products pests 10044  
*Tribolium castaneum* 2786  
 Diptera, Denmark 2409  
*Diuraphis noxia* 7649  
 Argentina 10493  
 fields  
 Araneae  
 Germany 1423  
 UK 1422  
 beneficial arthropods, Germany 6426  
 Carabidae  
 Switzerland 4399  
 UK 3427  
 Coleoptera  
 Denmark 11715  
 Norway 2406  
 Heteroptera, UK 7241  
 insects, Germany 1125  
 predatory arthropods  
 Germany 6425  
 Switzerland 5160  
*Pterostichus*, Sweden 4396  
 Syrphidae, Germany 8625  
 flours, *Tribolium anaphe* 3706  
 fumigants, residues, determination 9398  
*Holotrichia parallela*, Sichuan 9342  
 insect pests  
 books 12095  
 control, chemical control 6420, 6430  
 forecasting 6431  
 resistance 1414  
 Sweden 1300  
 insecticides, residues 11712  
*Isotoma notabilis*, Germany 6088  
*Oscinella frit*, resistance 9669  
*Oulema*, Hungary 7647  
 pesticides, residues 468  
 pests  
 Germany 9671  
 Spain 10686  
*Rhopalosiphum padi*  
 Norway 2406  
 Sweden 4396  
*Sitobion avenae*, France 7641  
*Zabrus tenebrioides*, France 1416  
*Ceriodaphnia dubia*  
 insecticides  
 effects 10611  
 toxicity 4285  
*Cernuella virgata*  
 biological control agents, evaluation 353  
 France 353  
 parasitoids 353  
*Cerrococcus quercus*  
 morphology, glands 5840  
 taxonomy 5840  
*Cerodiphria rosacordis*, Eucalyptus, Brazil  
 1660  
*Cerodontha asutralis*  
 grasses  
 damage 6515  
 New Zealand 6515  
*Ceromya*  
 Nearctic Region 4824  
 taxonomy 4824  
*Ceroastes ceriferus*  
 biology, life history 3599  
 control, chemical control 3599  
 natural enemies 3599  
 parasitoids 4933  
 tea, Guizhou 3599  
*Ceroastes destructor*  
 biology, life cycle 1568  
 tangelos, New Zealand 1568  
 taxonomy 5800

*Ceroplastes japonicus*  
Citrus, Israel 7845  
control, integrated control 7845

*Ceroplastes flosculoides*  
*Myrciaria dubia*, Peru 6671  
taxonomy, new species 6671

*Ceroplastes insularis*, taxonomy 5800

*Ceroplastes japonicus*  
ecology, population dynamics 10887  
forecasting 10887

*Ziziphus sativa*, China 10887

*Ceroplastes rusci*  
biology 3548  
control 11900  
figs, Iran 3548  
oranges, Italy 11900  
parasitoids 3548

*Ceroplastes sinensis*  
*Citrus*, New Zealand 6679  
control, chemical control 6679  
taxonomy 5800

*Ceropria*, taxonomy 5785

*Ceropria induta*, taxonomy 5785

*Ceropria induta* group, taxonomy 10108

*Ceropria kerleyi*  
coffee, Indonesia 10108  
taxonomy, new species 10108

*Cerosterna scabrator*  
*Diptercarpus alatus*  
damage 8889  
Thailand 8889

*Cerotoma ruficornis*  
biology 1479  
control, chemical control 8695  
ecology, population dynamics 7738

*Phaseolus*, Cuba 1479

*Phaseolus vulgaris* 7738  
Cuba 8695

*Cerotoma tingomarianus*  
ecology, population dynamics 1409  
legumes, Acre 1409

*Cerotoma trifurcata*  
control, chemical control 9750

*Phaseolus vulgaris* 7740  
plant pathogens, transmission 7740  
soyabeans  
damage 10760  
Nebraska 10760  
USA 9750

*Certhia familiaris*, Formicidae, interactions 2088

*Ceruchus lignarius*, forest trees, wood 5632

*Cerura vinula*, morphology, spiracles 939

*Cerylon*, taxonomy 9082

*Cerylon histeroides*, taxonomy 9082

*Cestrum nocturnum*, *Brevipalpus phoenicis*, resistance 4391

*Cetoniinae*  
control, integrated control 8658  
millets, Mali 8658

*Cetyltrimethylammonium bromide*, interactions, insecticides 3404

*Ceutorhynchinae*  
biology, seasonal abundance 4571  
raspberries, Quebec 4571

*Ceutorhynchus*  
Cardueae, Germany 8986  
*Hormathophylla spinosa*, Spain 10020  
parasitoids 10020

*Ceutorhynchus assimilis*  
biology 5570  
behaviour 522  
ecology, population dynamics 4617  
monitoring, traps 5570  
rape  
Czech Republic 5570  
damage 11922  
Georgia 4618  
Poland 3577  
resistance 3577  
Tennessee 4617  
USA 11922  
yield losses 4618  
UK 522

*Ceutorhynchus crucifer*  
biology 2748  
*Cynoglossum officinale*, Netherlands 2748  
parasitoids 2748



- Ceutorhynchus geographicus**  
control, *Echium plantagineum*, evaluation 5714  
*Echium plantagineum*, France 5714  
ecology, biological competition 5714
- Ceutorhynchus larvatus**  
control, *Echium plantagineum*, evaluation 5714  
*Echium plantagineum*, France 5714  
ecology, biological competition 5714
- Ceutorhynchus litura**, Cardueae, Germany 8986
- Ceutorhynchus napi**  
biology 5570  
crops, Germany 2130  
monitoring, traps 2130, 5570  
pathogens 6228  
rape  
Czech Republic 5570  
Poland 3576  
resistance 3576
- Ceutorhynchus pallidactylus**  
biology 5570  
crops, Germany 2130  
monitoring, traps 2130, 5570  
parasitoids 2130  
rape  
Czech Republic 5570  
Poland 3576  
resistance 3576
- Ceutorhynchus pleurostigma**  
rape  
Poland 3575  
resistance 3575
- Ceutorhynchus sulcicollis**  
control, chemical control 3574  
rape  
damage 3574  
Sweden 3574
- Ceutorhynchus trimaculatus**, Cardueae, Germany 8986  
CGA-215944, usage 1314  
CGA-59205  
control, Coccidae, *Citrus* 6679  
effects, *Hemiberlesia rapax* 6679
- Chad**, cowpeas, insect pests 8704
- Chaetanaphothrips orchidii**, *Rhododendron*, Georgia 1711
- Chaetexorista eutachinoides**, tea, plantations, Hunan 8382
- Chaetexorista klapperichi**, tea, plantations, Hunan 8382
- Chaetexorista palpis**, tea, plantations, Hunan 8382
- Chaetocnema**, sugarbeet, Czech Republic 5588
- Chaetocnema confinis**  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
*Pharbitis purpurea*  
North Carolina 1740  
resistance 1740  
sweet potatoes, South Carolina 5482
- Chaetocnema tibialis**  
control, chemical control 11953  
sugarbeet, Italy 11953
- Chaetodactylus osmiae**, prey, *Osmia tricornis* 5148
- Chaetoleucopsis** (see *Leucopsis*)
- Chaetophiloscia elongata**  
biology, reproduction 9518  
*Wolbachia*, symbionts 9518
- Chaetophora spinosa**  
biology, phenology 6662  
monitoring, traps 6662  
raspberries, Quebec 6662
- Chaetorellia succinea**  
*Centaurea solstitialis*  
Italy 5729  
resistance 5729
- Chaetosiphon fragaefolii**  
control, integrated control 11870  
plant extracts, effects 514  
strawberries  
Italy 11870  
Yugoslavia 11869
- Chaitophorinae**  
Brazil 2865
- Chaitophorinae cont.**  
taxonomy 2865
- Chaitophorus**  
biology, behaviour 3986  
*Formica*, interactions 3986
- Chalcididae**  
acaricides, effects 11856  
*Ailanthus*, forests, India 2673  
biology 388  
cereals, fields, Syria 3426  
control, Lepidoptera 388  
hosts  
Acari 11856  
*Atteva fabriciella* 2673  
*Diaeretiella rapae* 3426  
pears, orchards, Italy 11856
- Chalcidoidea**, *Ficus*, South Africa 1967
- Chalcodermus aeneus**  
control, cultural control 5469  
cowpeas, Georgia 5469
- Chalcodermus bimaculatus**  
control, biological control 7745  
cowpeas, Brazil 7745
- Chalcogran**  
attractants, insects 1650  
pheromones, *Pityogenes chalcographus* 8924
- Chalcolepidinae**, morphology, reproductive organs 7007
- Chalcolepidius limbatus**, prey, *Lochmaeocles sladeni* 7929
- Chalcophora**, distribution, Nicaragua 3110
- Chalopoxenus muellerianus**  
biology, behaviour 11317  
Formicidae, interactions 11317  
genetics, genes 5143
- Chalepus**, taxonomy, synonyms, *Parachalepus* 28
- Chalepus brevicornis**, taxonomy, from *Parachalepus* 28
- Chalicodoma spissula**  
Japan 7995  
parasitoids 7995
- Chalmus chalybeus**  
*Hemisarcophyes coccophagus*, interactions 6695  
New Zealand 6695
- Chamaecynone**, toxicity, Termitidae 3679
- Chamaecyparis**  
*Argyresthia*, Switzerland 10979  
*Phloeosinus*, Austria 10977
- Chamaecyparis formosensis**, extracts, toxicity, Termitidae 3679
- Chamaecyparis nootkatensis**, wood, *Coptotermes formosanus*, resistance 1764
- Chamaecyparis obtusa**  
Cerambycidae, Japan 6801  
*Chamaediplosis nootkatensis*  
British Columbia 6803  
galls 6803  
forests, Collembola, Honshu 9989
- Chamaecyparis pisifera**  
*Chamaediplosis nootkatensis*  
British Columbia 6803  
galls 6803
- Chamaecytisus palmensis**, *Agonopterix ulicetella* 11013
- Chamaediplosis nootkatensis**  
biology, life cycle 6803  
Cupressaceae  
British Columbia 6803  
galls 6803
- Chamaemyia**, morphology 4829
- Chamaemyiidae**  
cereals, fields, Syria 3426  
ecology, population dynamics 1597  
morphology 4829  
*Nerium oleander*, Honshu 797  
prey  
*Brachycaudus helichrysi* 1597  
Coccidae 4829  
sunflowers, fields, Yugoslavia 1597  
taxonomy 4829
- Chamaesphacia astatifomis**  
biology 12056  
control, *Euphorbia esula*, evaluation 12056
- Chamaesphacia hungarica**  
biology 12056
- Chamaesphacia hungarica cont.**  
control, *Euphorbia esula*, evaluation 12056
- Chamelacium uncinatum**  
arthropod pests, Australia 6805  
*Oncostichus goughi*, California 10997
- Chamelacium uncinatum**, commodities, insect pests 5746
- Chamomile** (see *Chamomilla recutita*)
- Chamomilla recutita**, insecticides, residues 7983
- Channa punctatus**  
insecticides  
effects 10591  
toxicity 2341, 8528
- Channa striatus**  
insecticides  
effects 4302  
toxicity 8528
- Characoma ruficirra**  
biology, behaviour 11306  
*Quercus acutissima*, Honshu 11306  
*Trichagalma serrata*, interactions 11306
- Charadrius vociferus**, insecticides, effects 9608
- Charidotella bicolor**  
*Pharbitis purpurea*  
North Carolina 1740  
resistance 1740
- Charidotis punctatostriata**, biology, life cycle 7162
- Charidotis pygmaea**  
control, *Lantana camara*, evaluation 10025  
South Africa 10025
- Charipidae**, hosts, Hymenoptera 563
- Charletonia blascoi**  
hosts, *Solenoxypus sauledai* 2715  
*Juniperus thurifera*, forests, Spain 2715  
taxonomy, new species 2715
- Charops**  
hosts, *Ectropis obliqua* 2119  
Zhejiang 2119
- Chasmagnathus granulata**, insecticides, effects 6356
- Chasmodon apterus**  
hosts  
Diptera 6505  
*Oscinella* 5452
- Chauliognathus**  
microorganisms 3004  
Texas 3004
- Chauliognathus lugubris**  
*Eucalyptus regnans*, plantations, Tasmania 2663  
prey, *Chrysophtharta bimaculata* 2663, 6162
- Chauliognathus pennsylvanicus**  
Maryland 3004  
microorganisms 3004
- Chauliognathus pulchellus** (see *C. lugubris*)
- Chauliops fallax**  
insecticides, effects 8500  
plant extracts, effects 8500  
soyabeans 8500
- Chauliops nigrescens**  
biology  
behaviour 7739  
reproduction 4478  
*Phaseolus vulgaris* 4478, 7739
- Chavarriella**, taxonomy, new genus 44
- Checklists**, Carabidae 1131
- Cheilomenes lunata**  
control, *Aphis craccivora*, evaluation 8701  
cowpeas, fields, Nigeria 7746  
prey  
Aphididae 542  
*Aphis craccivora* 7746, 8701  
wheat, fields, South Africa 542
- Cheilomenes sexmaculata**  
biology 319, 8379  
environmental factors 7727  
control  
*Aphis craccivora*, evaluation 8462  
*Aphis punicae*, pomegranates 9903  
crops, habitats, Bihar 7727  
dates, habitats, Gujarat 7858  
insecticides, toxicity 11611  
*Nerium oleander*, Honshu 797  
pomegranates, orchards, Karnataka 9903



**Cheilomenes sexmaculata** *cont.*

prey  
Aphididae 8955, 11611  
Aphis affinis 8955  
Aphis craccivora 7727, 8462  
Aphis gossypii 319, 8379  
Aphis medicaginis 5177  
Aphis nerii 797  
insect pests 7858

**Cheilosis albipila**, Cardueae, Germany 8986

**Cheilosis fasciata**  
Allium ursinum, Germany 7263  
biology, life cycle 7263  
parasitoids 7263

**Cheilosis fraterna**, Cardueae, Germany 8986

**Cheiracanthium**, plant extracts, toxicity 6305

**Cheiracanthium mildei**, prey, Tetranychus cinnabarinus 10371

**Cheiranthus cheiri**, Plutella xylostella, China 3420

**Cheiropachus quadrum**  
biology, environmental factors 2078  
hosts

Hylesinus varius 4626  
Scolytidae 2078  
olives, orchards, Spain 2078, 4626  
rearing techniques 2078

**Cheletogenes waitei**  
Citrus, Queensland 4588  
taxonomy, new species 4588

**Cheletomimus**, taxonomy 8059

**Cheletomimus cambio**  
taxonomy, new species 8059  
wheat, commodities, Pakistan 8059

**Cheletomimus zamia**  
cotton, Pakistan 8059  
taxonomy, new species 8059

**Chelinidea staffilei**  
morphology 11010

**Chelinidea tabulata**  
morphology 11010

**Chelonius**  
Opuntia pelifera, Mexico 11010

**Chelonius**  
groundnuts, fields, Maharashtra 11938  
hosts, Aproaerema modicella 11938  
morphology 11118  
taxonomy 11118  
new species 11118  
venoms, biochemistry, enzymes 10165

**Chelonius blackburni**  
control, Helicoverpa armigera, tomatoes 1520  
hosts, Helicoverpa armigera 1520

**Chelonius curvumaculatus**  
amino acids, effects 318  
biology 318  
hosts, Trichoplusia ni 318  
venoms, biochemistry, enzymes 10165

**Chelonius fissuralis**, hosts, Homoeosoma nebulella 3201

**Chelonius inanitus**  
biology, development 316  
hosts, Spodoptera littoralis 316  
pathogens 5215

**Chelonius insularis**, hosts, Spodoptera frugiperda 7677

**Chelonius madae**  
hosts, Maliarpha separatella 1212  
rice, habitats, Africa 1212  
taxonomy, new species 1212

**Chelonius oraculator**, hosts, Homoeosoma nebulella 3201

**Chelonius phthorimaeae**  
hosts, Phthorimaea operculella 7755  
potatoes, fields, Yemen 7755

**Chelydra serpentina**, insecticides, residues 3372, 10625

**Chelydra serpentina serpentina**  
insecticides, effects 10628  
pesticides, effects 9598

**Chelymorpha cribaria**  
distribution, Florida 5702  
Ipomoea, Florida 5702

**Chemosterilants**, control, insect pests, tea 2615

**Chenopodiaceae**, Phthorimaea operculella 4487

**Chenopodium album**  
control, biological control 11035

**Chenopodium album** *cont.*

Lygus lineolaris, Quebec 4110  
**Cherries** (*Prunus avium* and *P. cerasus*)  
Choristoneura rosaceana 6008  
commodities, insecticides, residues 3710  
Drosophila, Honshu 7824  
Enarmonia formosana, Washington 1547  
insect pests  
damage 7908  
detection 6658  
France 7908  
sampling 10840  
UK 10840

Iphiclydes podalirius, Italy 1545  
Thrips fallaciosus 919

**Chestnuts** (*Castanea sativa*)  
Cacopsylla mariannae, Turkey 1148  
Curculio elephas, France 1585  
Cydia splendana, France 8799  
Dryocosmus kuriphilus  
galls 7860  
Kyushu 7860

insect pests  
damage 7908  
France 7908  
Lymantria, China 7861

odours, effects, insects 9979  
Stenolechia rectivalva  
damage 10893  
Hebei 10893

Tortricidae, Italy 6703

**Cheyletidae**, taxonomy 4588

**Cheyletus eruditus**  
control, chemical control 9013

ecology, environmental factors 9013  
wheat

commodities  
habitats, UK 4802  
Manitoba 9013

**Chiasma clathrata**  
Hungary 4360  
pheromones 4360

**Chickens**  
insecticides  
metabolism 2330  
residues 4310

**Chickpeas** (*Cicer arietinum*)  
Agrotis ipsilon 4056  
Uttar Pradesh 3500

Bruchus pisorum, Chile 4466  
commodities

Acanthoscelides obtectus 12066  
Callosobruchus, Maharashtra 4804  
Callosobruchus chinensis 1765, 3089, 9014

Callosobruchus maculatus 6548  
resistance 11052

extracts  
attractants, Helicoverpa armigera 3411

effects, Bruchus pisorum 4466  
Helicoverpa, Queensland 5388

Helicoverpa armigera 179, 6548, 7638, 9429  
Andhra Pradesh 7741

damage 1483  
economic thresholds 7741

Haryana 5464-5465  
India 1484  
Indian Punjab 3489

Maharashtra 10772  
Orissa 1483, 4660  
Pakistan 10771

resistance 6545, 10772  
Tamil Nadu 5609, 10557  
Uganda 6545

Helicoverpa punctigera, Australia 6418  
insect pests 10752

control, chemical control 592  
Delhi 592

insecticides  
metabolism 592  
phytotoxicity 7312

pest control 858  
reports 2794-2796

pesticides, effects 5466  
seeds, Callosobruchus chinensis 3707  
Spodoptera litura 7639

**Chicks**  
insecticides, effects 8541

**Chicks** *cont.*

organophosphorus compounds, effects 443

**Chicory** (*Cichorium intybus*)  
insecticides, residues 3513, 9596

Napomyza cichorii, Belgium 8730  
Trialeurodes vaporariorum 9596

**Chile**

Acacia caven, Pseudopachymyrmica spinipes 5564

aquatic environment, insecticide residues 8588

avocados, Tegolophus myersi 9358  
Cerambycidae 5095

cereals, Aphididae 9668  
Coriandrum sativum, Systole coriandri 11006

Drosophila pavani 1993  
Drosophila subobscura 3780

Ephedra, Neotaphos rachelis 5688  
figs, Rhyncaphytopus ficifoliae 9358

forest trees, Coleoptera 5629  
Formicidae 1196

Gracillariidae 5794  
grapes

arthropod pests 8776  
Thripidae 8867

Gunnera tinctoria, Eupithecia horis-moides 5690

kiwifruits, arthropod pests 9901  
legumes, Bruchus pisorum 4466

Leptotes trigemmatas, parasitoids 9086  
maize

fields, Hymenoptera 10706  
Helicoverpa zea 10706

nectarines, Thripidae 9849  
Neopachytychius squamosus 5822

Noctuidae 9269  
Nothofagus dumbeyi, Basileura osornoen-sis 1806

Nothofagus pumilio, invertebrates 5660  
olives

orchards, Gitona brasiliensis 9918  
Orthezia olivicola 9918

Pinus radiata, Rhyaconia buoliana 1691  
Poaceae, Aphididae 9741

quarantine, insect pests 6292  
strawberries, Scarabaeidae 9858

tomatoes, Rhagoletis tomatitis 10818  
Vespula germanica 3937

**Chillies** (*see Capsicum*)

**Chilling**, effects, Bactrocera cucurbitae 10348

**Chilo auricilius**

biology, environmental factors 695  
control, trapping 2471

field crops, Yunnan 2471  
forecasting 695, 2471

sugarcane  
India 4638

Indonesia 6724  
resistance 6724

Uttar Pradesh 695

**Chilo infuscatellus**

biology, environmental factors 695, 3589  
control, chemical control 3588, 3591, 6725, 11948, 11951

forecasting 695  
monitoring, traps 7875

parasitoids 2222  
sugarcane

Gujarat 3591  
Haryana 11951

India 3589  
Indian Punjab 11948

Pakistan 3588, 6725  
resistance 9927

Taiwan 7875  
Uttar Pradesh 695, 5586

**Chilo partellus**

biology 2879  
behaviour 1419, 5416-5417, 7679

reproduction 2190, 2889, 6242  
cereals 1419

Kenya 4397, 5417  
control

biological control 1419  
chemical control 3445, 6474-6475

cultural control 5417  
integrated control 7686

diets 2190



***Chilo partellus* cont.**

- field crops
- Kenya 1418
- resistance 1418
- maize
- Comoros 8646
- damage 7679
- Kenya 1434, 4413, 5416, 5425, 7679, 9708
- resistance 1434, 4413, 4427, 7680, 9708
- monitoring, traps 5273
- morphology, genitalia 2879
- natural enemies 2129
- parasitoids 2185, 2222, 5425, 6984, 8646
- pathogens 2190, 3449, 6242
- Pennisetum americanum*, resistance 7693
- pheromones 5273
- physiology, pheromones 5920
- sampling 4397
- sorghum 3449
- India 7686
- Maharashtra 6475
- Pakistan 6474
- resistance 3445, 6477
- South Africa 3445

***Chilo sacchariphagus***

- sugarcane
- Indonesia 6724
- resistance 6724

***Chilo sacchariphagus indicus***

- biological control agents, evaluation 2222
- control, biological control 3595
- parasitoids 2222
- sugarcane, Tamil Nadu 2222, 3595

***Chilo suppressalis***

- Bacillus thuringiensis*, toxins, toxicity 11498
- biochemistry, enzymes 7537
- biology
- behaviour 568
- environmental factors 5438
- China 5295, 5300
- ecology, population dynamics 7710
- growth regulators
- effects 4351, 10670
- toxicity 7536-7537, 7553
- insect growth regulators, effects 10672
- insecticides, resistance 5295, 5300
- Japan 4074
- monitoring, traps 568, 4074, 7710, 10732
- parasitoids 9094
- rice 7537
- Fujian 9733
- Honshu 568
- Japan 10732
- Kyushu 7710
- Philippines 6485
- resistance 2463, 6485
- Taiwan 5438

***Chilo tumidicostalis***

- control 11952
- sugarcane, Assam 11952

***Chilocorinae*, taxonomy 11099*****Chilocorus bijugus***

- biology, behaviour 1095
- ecology, distribution 7851
- oranges, plantations, Guizhou 7851
- prey
- Quadraspidotus perniciosus* 1095
- Unaspis yanonensis* 7851
- sampling 7851

***Chilocorus bipustulatus***

- biology, development 8377
- Citrus
- orchards
- Iran 3553
- Yugoslavia 6684
- control, Diaspididae 6695
- Fabaceae, Israel 1723
- Germany 8377
- growth regulators, toxicity 11607
- prey
- Aonidiella orientalis* 3553
- Coccus pseudomagnoliarum* 6684
- Hemiptera 1723

***Chilocorus cacti***

- control, Diaspididae 6695
- morphology 11435

***Chilocorus chalybeatus***

- Actinidia, habitats, Hunan 5543

***Chilocorus chalybeatus* cont.**

- biology 7357
- Hunan 7357
- prey
- Aspidiotus destructor* 5543
- Pseudaulacaspis cockerelli* 7357

***Chilocorus hupehanus***

- biology, life cycle 10374
- ecology, population dynamics 10374
- prey, Hemiptera 10374
- Sichuan 10374

***Chilocorus infernalis*, control, Diaspididae 6695*****Chilocorus kuwanae*, prey, *Unaspis euonymi* 10001*****Chilocorus nigrita***

- biology 1579
- behaviour 8271, 11790
- development 3914
- Citrus, orchards, Italy 11899
- control, *Aonidiella citrina*, Citrus 11899
- dates
- habitats, Gujarat 7858
- orchards, Gujarat 1579
- plant extracts, attractants 11790
- prey
- Abgrallaspis cyanophylli* 11790
- Aspidiotus nerii* 8271
- insect pests 7858
- Parlatoria blanchardii* 1579, 3914

***Chilocorus nigrinus* (see *C. nigrita*)**

- Chilocorus renipustulatus***
- biochemistry, chemical composition 9220
- predators 9220
- Chilocorus rubidus***
- ecology, habitats 10939
- Quercus aliena*, habitats, Honshu 10939

***Chilocorus stigma*, prey, *Acyrtosiphon kondoi* 2479*****Chilopoda***

- ecology
- habitats, diversity 4021
- population dynamics 7946
- habitats, Slovakia 4021
- Pinus koraiensis*, Korea Republic 7946
- Chilotraea infuscatella* (see *Chilo infuscatellus*)**

**China**

- Agrilus* 11133
- Aphididae 10273
- Aphidius gifuensis* 9447
- Aphis gossypii* 8507
- natural enemies 8448
- Aphidius* 6950
- apples
- Carposina sasakii* 8755
- orchards, predatory arthropods 8754
- Panonychus ulmi*, predators 644
- Phyllonorycter ringoniella* 10848, 11847
- Apriona germarii*, natural enemies 902
- aquatic environment, insecticide residues 8597
- Ascogaster* 11112
- Atrijuglans hetaohei* 8465
- Bactrocera* 4031
- Bombyx mandarina* 11555
- Bombyx mori* 8179
- cabbages, Aphididae 617
- chestnuts, *Lymantria* 7861
- Chilo suppressalis* 5300
- Citrus
- Acari 8782
- Bactrocera minax* 9887
- Conogethes punctiferalis* 7852
- Panonychus citri* 8785
- Coccinellidae 204
- Coenomyiidae 10310
- Coleoptera 6942, 6946
- commodities, pesticide residues 7572
- cotton
- Helicoverpa armigera* 5601, 10924, 11962
- Lepidoptera 11963
- Ostrinia furnacalis* 10919
- Tetranychidae 9949
- Crataegus
- Cacopsylla idiocrataegi* 11861
- Spilonota pyrsicola* 10856
- Crataegus pentagyna*, *Carposina sasakii* 8768

**China cont.**

- Cryptosceneae* 5803
- Cunninghamia lanceolata*, *Lobesia cunninghamiacola* 10112
- Cyperaceae, *Thripsaphis* 6956
- Dacus* 5549
- Dasychira baibarana*, parasitoids 3199
- Delphacidae 7228
- Dendrolimus punctatus* 8279
- Diplopsocus* 14
- Drosophila virilis* 9051
- Drosophilidae 3745, 5093
- Ectropis obliqua*, pathogens 9529
- edible fungi, Acari 12050
- Evippe* 5807
- field crops, *Helicoverpa armigera* 8630, 10711
- food plants
- Aphis gossypii* 3007
- Bactrocera* 6598
- Plutella xylostella* 3420
- forest trees, *Flautiauxia* 6949
- fruits
- Tephritidae 2210
- Tetranychus urticae* 7806
- fungi, *Lycoriella pleuroti* 12041
- Gallerucida 10117
- Ginkgo biloba*, *Metabolus flavescens* 8857
- grasslands
- insect pests 8673
- locusts 7315
- greenhouse crops, Aleyrodidae 10472
- groundnuts
- pest control 9919
- Scarabaeidae 11934
- Helicoverpa armigera* 7261
- Ichneumonidae 9425
- insect pests 7509
- insects 921
- pathogens 8432
- Isoptera 5186
- linseed, integrated pest management 1593
- Lobesia* 5786
- Lotus*, insect pests 12035
- Miridae 11381
- mulberries
- Apriona germarii* 10865
- insect pests 10871
- Mycomya* 4835
- new journals 9046
- Nilaparvata lugens* 241, 4448, 5301
- Nitidotachinus* 1798
- onions, pest control 10797
- Oxya* 9228
- Panonychus ulmi* 8456, 11535
- Paranthrene tabaniformis*, natural enemies 902
- pears, *Bacchisa guerryi* 11860
- Pectinophora gossypiella* 9345
- Phyllocnistis citrella*, integrated pest management, reviews 4584
- Pieris napi* 5823
- Pinus*, *Dendrolimus punctatus* 6788
- plums, *Hoplocampa* 361
- Plutella xylostella* 10558
- pomegranates, *Narosa nigrisigna* 9899
- Quercus*, *Antheraea yamamai* 9453
- Rhinorthrombium* 25
- Rhopalocera, books 1795
- rice
- Cnaphalocrocis medinalis* 2446
- Echinocnemus squameus* 7715, 9735
- Orseolia oryzae* 7703
- Scirpophaga incertulas* 7491
- natural enemies 10728
- Sogatella furcifera* 2447
- Salticidae 7293
- Schlechtendalia chinensis* 10396
- soyabeans, Aphidoidea, predators 3491
- stored products, Dermestidae 11037
- subtropical tree fruits, *Cerace stipitata* 9896
- tea
- Acaphylla theae*, natural enemies 8821
- Aphidoidea 9936
- Ectropis obliqua* 8823
- Lygus spinolae* 9935
- Parametriotes theae* 9932
- Tenthredinidae 8078



## China cont.

tobacco, *Phthorimaea operculella* 2620  
tree fruits, *Tetranychidae* 9344  
*Ziziphus sativa*  
arthropod pests 10887  
*Carposina sasakii* 10889  
*Tegolophus zizyphagus* 8793  
Anhui  
*Andraca bipunctata* 8244  
apples, *Tetranychus viennensis* 2557  
*Bambusa*, *Nipponaclerda leptodermis* 11081  
*Boehmeria tricuspidis*, *Philineurus marmoratus* 718  
*Broussonetia papyrifera*, *Eotetranychus celis* 1830  
*Chilo suppressalis* 5295  
Coleoptera 10290  
field crops, *Chondracris rosea* 3295  
*Helicoverpa armigera* 6317  
*Pyrus breitschneideri*, *Ledra hyalina* 11082  
soybeans, *Leguminivora glycinivorella* 8692  
Beijing  
apples  
*Panonychus ulmi* 9840  
*Tetranychus viennensis* 8761  
*Brassica*, *Plutella xylostella* 1276  
Chrysomelidae, pathogens 11531  
conifers, *Eriophyidae* 10104  
cotton, *Helicoverpa armigera*, predators 10912  
*Helicoverpa assulta* 8137  
Noctuidae 5272  
*Orius sauteri* 233  
pome fruits, *Cydia pomonella* 9829  
tomatoes, *Trialeurodes vaporariorum* 11829  
wheat, *Metopolophium dirhodum* 10689  
Fujian  
bamboos, *Allonychus wuyinicus* 9050  
*Diaphorina citri*, *Citrus* 9886  
Kerriidae 22  
*Pediobius* 8  
rice  
*Chilo suppressalis* 9733  
*Chlorops oryzae* 8661  
fields, arthropods 2022  
*Nilaparvata lugens* 3467  
*Orseolia oryzae* 8662, 10729  
tea, *Myllocerinus aurolineatus* 9933  
Gansu  
*Allothorinocoris* 8089  
barley, *Hydrellia griseola* 9689  
grasslands, *Pallasiola absinthii* 3481  
Guangdong  
Acridoidea 7327  
*Aphelinus spiraeocolae* 11078  
*Citrus*  
*Aonidiella aurantii*, parasitoids 666  
*Panonychus citri* 10875  
natural enemies 668  
Delphacidae 3090  
medicinal plants, commodities, *Pycnoscelus* 3712  
*Pieris rapae* 393  
rice  
*Nilaparvata lugens* 9729  
*Orseolia oryzae* 3453  
*Scirpophaga incertulas* 10736  
*Steneotarsonemus spinki* 9720  
soil, insecticide residues 8594  
tea, insect pests, natural enemies 7883  
*Tenebrio molitor*, predators 7373  
vegetables, *Plutella xylostella* 10548  
Guangxi  
*Camellia oleifera*, *Paracolopodacus camelliae* 10097  
*Dendrolimus punctatus*, parasitoids 1219  
*Empoasca* 7495  
oranges, *Phyllocnistis citrella* 3071  
rice, *Orseolia oryzae* 10734  
subtropical tree fruits, *Tessaratomia papillosa*, parasitoids 11905  
Guizhou  
*Apis cerana*, parasitoids 10373

## China *cont.*

Guizhou cont.

*Biston thibetaria*, pathogens 8429  
Carabidae 3098  
*Chrysochroa* 6943  
Chrysopidae 5791  
Dermaptera 6095  
Mycetophiloidea 6096  
oranges, *Unaspis yanonensis*,  
predators 7851  
Sciaridae 5792  
tea, *Ceroplastes ceriferus* 3599

Hainan  
*Chrysochroa* 6943  
forest trees, *Tenuipalpus* 11132  
tea, insect pests, natural enemies  
7883

Hebei  
*Allorhinocoris* 8089  
chestnuts, *Stenolechia rectivalva*  
10893  
cotton, *Helicoverpa armigera* 9961  
Cyperus, *Thripsaphis* 6956  
field crops, *Helicoverpa armigera*  
412  
*Helicoverpa armigera* 6317  
*Larix*, *Zeiraphera* 3662  
*Lespedeza bicolor*, *Fleutiauxia yuae*  
6949  
*Locusta migratoria manilensis* 3177  
*Lyoneia clerkella* 8255  
*Ostrinia furnacalis* 10255  
pome fruits, *Cydia pomonella* 9829  
rice, *Oxya chinensis* 8659  
soyabeans, *Clanis bilineata* 3495  
wheat, *Helicoverpa armigera* 10694

Heilongjiang  
Formicidae 10212  
*Idiocerus* 10098  
*Cercus*, *Antheraea yamamai*, natural  
enemies 8245  
rice, *Tipula* 3454  
soyabeans, insect pests 10753

Henan  
cotton  
*Aphis gossypii* 10914  
*Tetranychus cinnabarinus* 10918  
*Helicoverpa armigera* 6317  
*Mythimna separata*, pathogens 2201  
pome fruits, *Cydia pomonella* 9829  
rice, fields, predatory arthropods  
11750  
wheat  
Aphididae, predators 10690  
*Mythimna separata*, predators 256  
*Penthaeus major* 9681

Hubei  
*Brassica*, *Plutella xylostella* 1276  
cotton  
*Pectinophora gossypiella* 5618  
predators 7887  
gymnosperms, *Metasequoia miris*  
*carvalhoi* 11125  
*Osmanthus fragrans*, *Panonychus*  
*citri* 8941  
*Ziziphus sativa*, *Euzophera batangensis*  
3569

Hunan  
*Actinidia*, *Aspidiotus destructor* 5543  
aubergines, *Leucinodes orbonalis*  
7794  
*Boehmeria nivea*, *Endoclitia*  
*jianglingensis* 11973  
*Celypha pseudolarixicola* 10675  
*Chilocorus chalybeatus* 7357  
Citrus, arthropod pests, predators  
9889  
cotton  
*Anomis flava* 8832  
fields, *Apanteles anomidis* 8832  
*Dendrolimus punctatus*, parasitoids  
1219  
forest trees, Lepidoptera, parasitoids  
9969  
grasses, *Laelia coenosa* 8674  
Kerriidae 22  
Noctuidae, pathogens 3254  
oranges  
*Aleurocanthus spiniferus*, parasitoids  
3233  
*Chrysomphalus aonidum* 3557

## China cont.

Hunan cont.  
    *Phragmataecia castaneae* 10927  
rice  
    fields  
        Araneae 6169  
        Linyphiidae 3452  
sugarbeet, *Spodoptera exigua* 8819  
tea  
    plantations  
        Araneae 8820  
        Tachinidae 8382  
*Ziziphus sativa*, *Pachyrhynchus yasui*  
    *matsui* 3654  
Jiangsu  
    *Chilo suppressalis* 5295  
cotton  
    *Aphis gossypii*  
        ectoparasites 1625  
        natural enemies 715  
    fields, *Allothrombium pulvinum*  
        1625  
    *Ostrinia nubilalis* 3618  
crops, *Acronicta rumicis* 7635  
forest trees, *Neothrombaphys yanonisi*  
    3653  
fruit trees, Lepidoptera 10839  
    *Helicoverpa armigera* 6317, 11334  
    *Laelia coenosa*, parasitoids 11455  
litter (plant), *Rhinotrombium wux-*  
    *iensis* 25  
    *Morus*, *Floutiauxia chinensis* 6949  
    *Nilaparvata lugens* 7493  
    *Ostrinia furnacalis*, parasitoids 310  
    *Pseudolarix amabilis*, *Boczekella*  
        *pseudolaris* 10104  
rice  
    Delphacidae 3468  
    fields  
        Linyphiidae 3452  
        predatory arthropods 11750  
    *Laodelphax striatella* 10733  
    *Nilaparvata lugens* 4444, 8668,  
        10743  
soyabeans, insect pests 11768  
strawberries, Scarabaeidae 7831  
sugarbeet, *Spodoptera exigua* 7880  
tea, *Lygus lucorum* 7881  
wheat  
    *Mythimna separata*, predators 256  
    *Ostrinia nubilalis*, parasitoids  
        7682  
Jiangxi  
    *Camptotheca acuminata*, Eriophyes  
        *camptothecae* 10097  
    *Cinnamomum camphora*, *Schizote-*  
        *tranychus lushanensis* 12048  
    *Pediobius* 8053  
    sugarcane, *Cavalerius saccharivorus*  
        7878  
Jilin, *Crataegus*, *Paropsides soriculata*  
    10953  
Liaoning  
    apples, *Phyllonorycter ringoniella*  
        9830  
    Araneae 11365  
    pome fruits, *Cydia pomonella* 9829  
    shelterbelts, *Lepidosaphes salicina*,  
        natural enemies 2654  
Nei Menggu  
    *Benula*, *Psallus falleni* 10314  
    grasses, *Chorthippus dubius* 8675  
    grasslands, insect pests 8673  
    steppes, Acrididae 8298  
    wheat, insects 3095  
Ningxia, predatory insects 1210  
Qinghai, *Populus cathayana*, *Sesia sin-*  
    *ghensis*, parasitoids 11992  
Shaanxi  
    *Ericerus pela* 7254  
    ornamental plants, *Asterococcus*  
        *muratae* 8936  
    rape, Aphididae 9911  
    wheat, Cecidomyiidae 7671  
Shandong  
    *Ammophila*, distribution 10079  
    *Cacopsylla pyrisuga*, natural enemies  
        11456  
    *Celtis sinensis*, *Oligomerismus*  
        *shandongensis* 1830  
    *Conogethes punctiferalis* 8139



## China cont.

## Shandong cont.

- cotton, *Aphis gossypii* 2640  
 Diaspididae 8317  
*Etiella zinckenella* 7214  
 Fagaceae, Kermesidae 8069  
 field crops, Noctuidae 10917  
*Forficula*, pathogens 2155  
*Ginkgo biloba*, *Etiella zinckenella* 11975  
 Gryllidae 10274  
*Helicoverpa armigera* 6317, 10542  
 Hemiptera 3097  
 Homoptera 9369  
 mulberries, silkworms 3239  
*Mythimna separata* 10476  
*Oxya bicingula* 19  
 pome fruits, *Cydia pomonella* 9829  
 rice, *Cnaphalocrocis medinalis* 10730  
*Salix*  
*Apion* 2669  
*Nematus frenalisi* 11993  
 soyabeans, insect pests 3494  
 wheat  
 Aphididae 3433  
*Sitobion avenae*  
 parasitoids 9677  
 predators 7667

## Shanghai

- Brassica*, *Plutella xylostella* 1276  
 cabbages  
 arthropods 10805  
 Lepidoptera 6339  
 Chinese cabbages, insecticide residues 5309  
*Diaphania perspectalis* 3027  
*Plutella xylostella* 11577  
 rice, *Nilaparvata lugens* 7711  
*Thalictrum*, *Tetranychus merganser* 1830  
 vegetables, Aphididae 8498  
 wheat, *Mythimna separata* 6442

## Shanxi

- Allium*, *Delia antiqua* 11805  
*Allorhinocoris* 8089  
 Citrus, pest control 10877  
 fruits, *Cicadella viridis* 11840  
*Oxya chinensis*, natural enemies 277  
 sugarbeet, insect pests 9929  
*Zanthoxylum*, Chrysomelidae 11998

## Sichuan

- apples, arthropods 3094  
*Buxus megisotophylla*, *Yponomeuta* 8892  
 Carabidae 3098  
*Chilocorus hupehanus* 10374  
 crops, *Holotrichia parallela* 9342  
 grapes, *Aoraia scutellaris* 9861  
*Mimastra cyanura* 7175  
 peaches, *Aculus fockeui* 9848  
*Pinus yunnanensis*, *Anthaxia sinica* 1827

- Polyphagotarsonemus latus* 8466  
*Stenus* 20  
 vegetables, arthropods 9349  
*Zanthoxylum*, *Alcidodes sauteri* 3655

Tianjin, lawns and turf, *Spodoptera*

- depravata*, natural enemies 10008

## Xinjiang

- Acrididae 276  
*Allorhinocoris flavus* 8089  
 cotton, *Lygus pratensis* 7890  
*Helicoverpa armigera* 6317  
 Meloidae 10129

## Yunnan

- Castanopsis delavayi*, *Asterodiaspis bififormis* 5806  
 Epilachnini 2831  
 faba beans, pests 589  
 field crops, *Chilo auricilius* 2471  
 forest trees, *Oxyrachis sinensis* 5805  
 Kerriidae 22  
*Pinus*, *Tomicus piniperda* 10965  
*Pinus yunnanensis*  
*Anthaxia sinica* 1827  
*Tomicus piniperda* 10964  
 trees, *Kerria yunnanensis* 1236

## Zhejiang

- Brassicaceae, Aphididae 3516  
 Citrus, *Panonychus citri* 11890

## China cont.

## Zhejiang cont.

- Dendrolimus punctatus*, parasitoids 7354  
*Ectropis obliqua*, natural enemies 2119  
 environment, insecticide residues 2359  
 habitats, Hemiptera, symbionts 6787  
*Magnolia biloba*, *Strigina bifida* 5689  
*Morus*, *Floutiauxia chinensis* 6949  
*Myrica*, *Phyllonorycter* 657  
*Quercus glauca*, *Nasutitermes anjien-sis* 11134

## rice

- Delphacidae 3466  
 fields  
 Linyphiidae 3452  
 predatory arthropods 11750  
*Scirpophaga incertulas* 9730  
 wheat, *Helicoverpa armigera* 10688  
 wood, Rhinotermitidae 12065

Chinese cabbages (*Brassica pekinensis*)

- growth regulators, residues 4298, 5309  
*Liriomyza trifolii* 10275  
*Myzus persicae* 7773  
 Korea Republic 7769  
*Plutella xylostella*  
 resistance 7778  
 UK 7778

*Spodoptera exigua*

- economic thresholds 5496  
 Korea Republic 5496

## Chinese gooseberries (see Kiwifruits)

## Chinomethionat

## control

- Bemisia tabaci*, cucumbers 10835  
*Tetranychus urticae*, cucumbers 4544  
*Trialeurodes vaporariorum*, cucumbers 4544  
 nontarget effects, chrysanthemums 10992  
 toxicity, *Brevipalpus phoenicis* 3558

*Chinomus haywardi*

- biology, behaviour 3425  
 cereals 3425  
 ecology, population dynamics, models 7648

- food plants, Argentina 7648  
 plant pathogens, transmission 7648

*Chionaspis heterophyllae*

- ecology, communities, models 1220  
 insecticides, resistance 7945  
 natural enemies 1220  
 North America 1220  
*Pinus taeda*

- Louisiana 7945  
 outbreaks 7945

*Chionaspis pinifoliae*

- ecology, communities, models 1220  
 natural enemies 1220  
 North America 1220

*Chionaspis salicis*, parasitoids 7285

## Chironomidae

- evolution 928  
 insecticides, effects 7615  
 rice, New South Wales 9734

*Chironomus tepperi*

- control, chemical control 9734  
 rice, New South Wales 9734

## Chiroptera

## pesticides

- effects 3357  
 residues 5345

## prey

- Heterocera 9348  
 insects 249

*Chirothrips manicatus*, grasslands, Poland

- 8672

*Chisocheton microcarpus*, extracts, toxicity,

- Peridroma saucia* 430

## Chitin synthesis inhibitors

## control

- stone fruits, insect pests 7823  
 stored products pests 8016  
 effects, *Dasychira baibarana* 3408  
 mode of action 2273

Chitinase, effects, *Acyrtosiphon pisum*

- 11566

Chives (*Allium schoenoprasum*)

- arthropod pests 883

## Chives cont.

## books 883

*Chlaenius*

- apples, orchards, California 11851  
 distribution 1811  
 insecticides, effects 11851  
 taxonomy 1811

*Chlaenius costiger*, Korea Republic 1158*Chlaenius micans*

- distribution, Korea Republic 1158  
 ecology, distribution 5447  
 fodder crops, fields, Honshu 5447  
 Korea Republic 1158

*Chlaenius naeviger*, Korea Republic 1158*Chlaenius posticalis*

- distribution, Korea Republic 1158  
 Korea Republic 1158

*Chlaenius tetragonoderus*

- biology, behaviour 7349  
 millets, fields, Honshu 7349

*Chlaenius tricolor*

- apples, orchards, California 11851  
 insecticides, effects 11851

*Chlamydomonas reinhardtii*, insecticides,

- effects 10614

*Chlamydomonas segnis*, insecticides, effects

- 10614

## Chlordane

- analysis 2348, 3328  
 control, *Cylas formicarius*, sweet potatoes 2518  
 degradation, soil 8593  
 effects, *Corcyra cephalonica* 11598  
 nontarget effects

- aquatic animals 2296

- environment 11663

- Mergus serrator* 8537

## residues

- aquatic environment 8595  
 aquatic organisms 4322  
 atmosphere, analysis 3141  
*Chelydra serpentina* 10625  
 cod liver oil 3367  
 crops 3398  
 extraction 4336  
 fishes 457, 2348, 5344, 6363, 7616  
 fodder plants 578  
 food 4789  
*Gadus morhua* 5343  
 groundwater 2356  
 human milk 8535, 10566  
 lakes, sediment 6380  
 man 4290  
 residential areas, monitoring 255  
 rivers 4333  
 sediment 493  
*Sigmodon hispidus* 8540  
 soil 10637  
*Tachypleus tridentatus* 8558

- toxicity, fishes 4303

 $\alpha$ -Chlordane, residues, turtles 3372

## Cis-Chlordane, residues, environment 1184

## Chlordanes, nontarget effects, aquatic organisms 10628

## Chlordimeform

## antifeedants

- Plutella xylostella* 5383  
*Spodoptera litura* 11697  
 control, *Scirpophaga incertulas*, rice 7491

- effects, *Tribolium freemani* 8119

- toxicity, *Plutella xylostella* 5383

*Chlorella fusca*, pesticides, mixtures, toxicity 5319*Chlorella pyrenoidosa*, insecticides, effects 10614*Chlorella vulgaris*, insecticides, effects 2302, 8533, 10614

## Chlorethoxyfos

- control, *Diabrotica virgifera*, maize 9705  
 effects, herbicide resistance 9714  
 interactions, herbicides 2316  
 mixtures, effects, *Diabrotica* 9705

Chlorfensulphide, mixtures, control, *Stenotarsonemus spinki*, rice 9720

## Chlorfenvinphos

- carbofuran, interactions 491

- control, *Psila rosae*, carrots 606

## effects

- Passer domesticus* 2338  
*Sturnus vulgaris* 8552, 11642



**Chlorfenvinphos cont.**

nontarget effects, birds, assessment  
11613

## residues

determination 3682  
mushrooms 3682  
determination 3682

toxicity, *Frankliniella occidentalis* 11581

**Chlorfluazuron**

## control

*Pieris rapae* 393  
*Spodoptera exigua*, sugarbeet 7880  
*Thrips palmi*, *Phaseolus vulgaris*  
5462

## effects

Coccinellidae 444  
*Spodoptera frugiperda* 4352  
*Trichogramma pretiosum* 7570

## resistance

Lepidoptera 6339  
*Plutella xylostella* 4514, 6336, 9650,  
11577

## toxicity

beneficial insects 11607  
*Ceraeochrysa cubana* 4324  
Coleoptera 1332  
*Frankliniella occidentalis* 11581  
insect pests 7536-7537  
*Plutella xylostella* 10669, 11577  
*Tenebrio molitor* 11595

**Chloridazon**, residues, aquatic environment  
8588

**Chlorimuron**, interactions, insecticides  
10632

**Chlorinated 1,1'-biphenyl**, residues, aquatic  
environment 8595

**Chlorinated hydrocarbons**

residues, aquatic environment 5363  
usage, Germany 3322

**Chlormequat**, effects, predatory arthropods  
11640

**2-Chloro-ethyl phosphonic acid**, effects,  
*Phloeotribus scarabaeoides* 7310

**Chloroacetates**, pheromones, Noctuidae  
7634

**Chlorobenzilate**, movement, soil 8579

**1-(2-Chlorobenzoyl)-3-(4-chlorophenyl)  
urea**

## degradation

soil fungi 4299  
water 5278, 5310

effects, *Ctenopharyngodon idella* 5310

movement, soil 5359

photolysis 4330, 5311

## residues

Chinese cabbages 4298, 5309  
environment 4331  
soil 4298

**Chlorochlamys chloroleucaria**

biology, behaviour 11322  
*Rudbeckia hirta*, Quebec 11322

**4-Chloro-5-(6-chloro-3-pyridylmethoxy)-2-  
(3,4-dichlorophenyl)-pyridazin-3(2H)-  
one**, effects, *Sogatella furcifera* 9573

**Chlorocyclus**, hosts, *Agapanthia villosovi-  
ridescens* 1226

**4-Chloro-2-(1,1-dimethylethyl)-5-(((4-(1,1-  
dimethylethyl) phenyl) methyl) thio)-  
3(2H)-pyridazinone**, control,  
*Brevipalpus*, mandarins 2578

**Chlorogenic acid**, effects, *Manduca sexta*  
5858

**Chlorohydrins**, antifeedants, *Spodoptera lit-  
toralis* 2735

**Chlorophenols**, toxicity, aquatic organisms,  
assessment 10624

**Chlorophorus varius**

distribution, Sweden 10302  
grapes, Sweden 10302

**Chloropidae**

Germany 11122  
taxonomy 11122

**5-(2-Chloropropanamide)-4-nitro-1-(2,6-  
dichloro-4-(trifluoromethyl)phenyl)-  
1H-pyrazole**, effects, *Acheta domes-  
ticus* 3363

**Chlorops oryzae**

control, chemical control 8661

## rice

damage 8661  
Fujian 8661

**1-[N-(6-Chloro-3-pyridyl)-N-methylamino-  
1-(N-formyl-N-methylamino-2-  
nitroethane, toxicity, insect pests** 3340

**1-[N-(6-chloro-3-pyridyl)-N-methylamino-  
1-methylamino-2-nitroethane, toxicity,  
Nilaparvata lugens** 3340

**Chlorothalonil**

control, *Coptotermes formosanus*, *Pinus*,  
wood 3698

with chlorpyrifos, control, Lepidoptera  
6715

**Chlorpyrifos**

application 9389

## control

Acrididae 6358

*Amsacta moorei*, guar 9772

*Anomala dimidiata*, soyabeans 4471

*Antigastra catalaunalis*, sesame 7874

arthropod pests

*Citrus* 11900

peaches 11864

*Aulacophora indica*, melons 1582

*Carposina sasakii*, apples 8755

*Chilo infuscatellus*, sugarcane 11948

Coleoptera, potatoes 9779

*Contarinia*, *Jasminum sambac* 3665

*Coptotermes formosanus*, *Pinus*,

wood 11039

*Cydia molesta*, pome fruits 7809

*Cydia pomonella*, pome fruits 10843

*Diabrotica virgifera*, maize 10713

*Diaphorina citri*, oranges 8783

*Diadisa armigera*, rice 7707

*Formica exsectoides* 580

*Holotrichia*, potatoes 11792

insect pests

*Alpinia purpurata* 10996

cowpeas 9771

*Vigna radiata* 11786

Isoptera 6204

*Eucalyptus urophylla* 2659

tea 699

*Lepidiodia picticollis*, sugarcane 7877

Lepidoptera, groundnuts 6715

*Linepithema humile* 10473

*Lipaphis erysimi*

Indian mustard 5497, 5698

rape 9910

toria 9796

*Maladera*, wheat 9673

*Mayetiola destructor*, wheat 6447

*Mythimna separata*

rice 2467

wheat 538

*Otiorynchus*, strawberries 6663

*Otiorynchus sulcatus*, ornamental

woody plants 6812

*Paranthrene robiniae*, forest trees

4686

*Phthorimaea operculella*, potatoes

3503

*Pseudaulacaspis pentagona*, tea

11957

*Spodoptera litura*, tobacco 3609

Tenebrionidae, field crops 5396

Tortricidae, fruits 6628

controlled release 1316

## degradation

determination 6110

glass 9404

soil 9641

determination 7572

## effects

aquatic communities 7614

*Asellus aquaticus* 6370

*Brachionus plicatilis* 10611

*Calosoma alternans* 7569

*Ceriodaphnia dubia* 10611

Coleoptera 1310, 7566

*Diuraphis noxia* 9680

*Eretmocerus debachi* 445

herbicide resistance 9714

man 8531

*Mastotermes darwiniensis* 10534

*Nilaparvata lugens* 1310

*Oligota fageli* 5523

*Palaemonetes pugio* 2332

*Paramecium aurelia* 10611

predatory insects 9771

soil, microorganisms 6382

soil fauna 9572

**Chlorpyrifos cont.**

## effects cont.

soil flora 6374

*Trichogramma pretiosum* 1337

wheat 8629

formulations 11900

immunoassay 4284

interactions, herbicides 2316

metabolism

cauliflowers 2523

rats 7557

## mixtures

## control

arthropod pests, peaches 11864

insect pests

cowpeas 9771

rice 9722

*Orseolia oryzae*, rice 5440

## effects

cotton 8839

Noctuidae 8496

nontarget effects

*Platyaster oryzae* 5440

predatory arthropods 9722

movement, soil 5364

nontarget effects

aquatic environment 2350

assessment 10650

aquatic invertebrates 11617

aquatic organisms, evaluation 4328

birds 6358

effects, tea 699

man 8536

penetration, clothing 4232

## residues

apples 10588

determination 10588

aquatic environment 8588

coffee, commodities 2787

commodities 7572

determination 845

environment 11672

determination 2073

fishes 11668

kiwifruits 8576, 9901

lemons 11450

man 465, 1351, 10623

olives, commodities 12078

*Poecilia reticulata* 7586

precipitation 4341

residential areas, monitoring 255

rice, commodities 845

rivers 11677

soil 6204

determination 6204

urban areas 4342

water 4328, 11657, 11672

## resistance

*Adoxophyes orana* 10847

*Aonidiella* 4590, 9890

*Aphytis melinus* 7816

*Bemisia tabaci* 5616, 11587

*Hypothenemus hampei* 5293

*Liriomyza trifolii* 10563

*Myzus persicae* 5608

*Plutella xylostella* 447

*Schizaphis graminum* 7547

synergists, effects, *Helicoverpa armigera*

8501

## toxicity

*Aphis gossypii* 2401

*Apis cerana* 3348

*Apis mellifera* 3361

Braconidae 10587

*Cnaphalocrocis medinalis* 11744

earthworms 477

*Heliothis virescens* 9404

insects 1316

*Maladera matrida* 8511

mammals 8536

*Metarhizium anisopliae* 2307

*Photobacterium phosphoreum* 10616

*Popillia japonica* 4265

*Schizaphis graminum* 7547

sorghum 2437

*Tenebrio molitor* 4319

with fungicides, control, Lepidoptera

6715

**Chlorpyrifos-methyl**

## control

Coleoptera, wheat, commodities 9008



**Chlorpyrifos-methyl cont.**

- control cont.
  - insect pests, cowpeas 9771
  - Metcalfa pruinosa*, fruits 11854
  - Pseudaulacaspis pentagona*, fruits 11844
- effects
  - fishes 1352
  - predatory insects 9771
- immunoassay 4284
- mixtures, effects, Coleoptera 2784
- residues
  - buckwheat, commodities 844
  - foods 2360
  - grapes 11884
  - wheat
    - commodities 5748
    - analysis 5750
- resistance
  - Aphis gossypii* 10551
  - Bracon hebetor* 9613
- toxicity
  - Apis mellifera* 3361
  - Coleoptera, wheat, commodities 11043
- Choke cherries** (see *Prunus virginiana*)
- Cholesterol derivatives**, effects, *Gryllus bimaculatus* 8167
- Cholesterol oxidase**, toxicity, *Anthonomus grandis* 7514
- Chondestes grammacus**, prey, insects 2020
- Chondracris rosea**
  - biology 3295
  - control, chemical control 3295
  - field crops, Anhui 3295
- Choreutis pariana**
  - apples, New York 4553
  - control, physical control 4553
  - Malus*
    - Michigan 2552
    - varietal reactions 2552
- Chorisia**, *Caio richardsoni*, Mexico 1854
- Choristoneura**
  - British Columbia 9123
  - forest trees, British Columbia 6800
  - morphology, reproductive organs 9123
  - taxonomy 9123
- Choristoneura biennis**
  - British Columbia 9123
  - genetics, mitochondrial genetics 7124
  - morphology, reproductive organs 9123
  - taxonomy 9123
- Choristoneura fumiferana**
  - Abies balsamea* 8929
  - endophytes, toxicity 8514
  - extracts 1703
  - Ontario 7960
  - Quebec 2711, 8926
- Bacillus thuringiensis*, toxins, toxicity 1268
- biological control agents, evaluation 9528
- biology
  - environmental factors 4192
  - feeding behaviour 1703
  - reproduction 9656
- British Columbia 9123
- cell lines
  - insect growth regulators, effects 9554
  - pathogens 2172, 3265
- control, biological control 756, 7960
- ecology
  - population dynamics 1682
  - models 1135
- forest trees
  - New Brunswick 7615
  - Ontario 756
- genetics
  - chromosomes 5009
  - mitochondrial genetics 7124
- growth regulators, effects 8510, 8599, 11684
- insecticides
  - pathogenicity 364
  - resistance 9568
  - toxicity 8929
- morphology, reproductive organs 9123
- Newfoundland 754
- Ontario 9568
- parasitoids 1215, 4721, 7363, 7960, 8280, 8900, 9528, 10278

**Choristoneura fumiferana cont.**

- pathogens 2172, 4192, 4197, 9568, 11494
- pheromones 9656
- physiology
  - cold resistance 8120
  - endocrine system 11684
- Picea glauca*
  - damage 772
  - New Brunswick 772
- Pinopsida
  - Canada 4721, 8921
  - damage 8921
  - Maine 1682, 2690
  - New Brunswick 1684, 4722
  - Quebec 759
- taxonomy 9123
- Choristoneura murinana**
  - control, biological control 5625
  - forest trees, Germany 5625
  - pathogens 5625
- Choristoneura occidentalis**
  - biological control agents, evaluation 9528
  - biology 9998
    - environmental factors 11974
  - control, biological control 4720
  - diets 4746
  - forest trees
    - Colorado 8899
    - Mexico 8896
    - outbreaks 8899
  - genetics, mitochondrial genetics 7124
  - insecticides, toxicity 10506
  - parasitoids 9528
- Pinopsida
  - damage 11974
  - Oregon 4720, 11974
  - outbreaks 11974
- Pseudotsuga menziesii* 4746
- Arizona 9998
- Idaho 9997
- resistance 9997
- sampling 4720
- Choristoneura orae**, genetics, mitochondrial genetics 7124
- Choristoneura parallela**
  - apples, Virginia 10849
  - monitoring, traps 10849
  - pheromones 10849
- Choristoneura pinus**
  - biology, behaviour 4724
  - ecology, population dynamics 1688, 4724
  - genetics, mitochondrial genetics 7124
- Pinus banksiana*
  - Ontario 4724, 7938
  - Wisconsin 1688
- Choristoneura rosaceana**
  - apples
    - British Columbia 4552
    - New York 4553
    - Washington 1538
  - biology, behaviour 3987, 6008
  - control
    - mating disruption 1538, 4552, 6640
    - physical control 4553
  - food plants 647, 6008
  - genetics, genetic variation 6008
  - hazelnuts 9907
  - parasitoids 10278
  - pathogens 9516, 9854
  - raspberries 9854
- Chorthippus apricarius**, genetics, chromosomes 11237
- Chorthippus biguttulus**
  - biology, behaviour 9192
  - physiology
    - nervous system 9192
    - senses 8157
- Chorthippus biguttulus biguttulus**
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chorthippus biguttulus group**
  - Europe 9113
  - evolution 9113
- Chorthippus brunneus brunneus**
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chorthippus curtispennis**
  - Montana 363

**Chorthippus curtispennis cont.**

- pathogens 363
- Chorthippus dubius**
  - ecology, insect communities 8298
  - grasses
    - Nei Menggu 8675
    - yield losses 8675
  - steppes, Nei Menggu 8298
- Chorthippus miramae**
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chorthippus miramae tsejensis**
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chorthippus mollis**, physiology, nervous system 9193-9194
- Chorthippus mollis mollis**
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chorthippus parallelus**
  - alpine grasslands, Austria 9739
  - biology, behaviour 8257
  - ecology, habitats 9739
  - Europe 3908
  - genetics
    - population genetics 2990
    - reproduction 3908
- Chorthippus parallelus erythropus**
  - biochemistry, chemical composition 6012
  - Europe 6012, 8257
  - genetics, hybridization 3092, 6012
  - Spain 3092
- Chorthippus parallelus parallelus**
  - biochemistry, chemical composition 6012
  - Europe 6012, 8257
  - genetics, hybridization 3092, 6012
  - Spain 3092
- Chorthippus vagans**, genetics, chromosomes 11237
- Chorthippus yersini**
  - distribution 5123
  - morphology 5123
  - Russia 5123
  - songs 5123
- Chortoicetes terminifera**
  - Australia 3151
  - control, biological control 9527
  - New South Wales 9527
  - pathogens 3257
- Chortophaga viridifasciata**, genetics, mitochondrial DNA 7149
- Chramesus hicoloriae**, *Celtis tenuifolia*, Ontario 818
- Chrysobothris brassicae** (see *Alloxysta vicitrix*)
- Chromaphys kuricola**
  - Castanea crenata*, Honshu 2098
  - predators 2098
- Chromatomyia horticola**
  - linseed, India 11924
  - biology, development 5851
  - control, chemical control 1480
  - ecology, arthropod communities 9349
  - horticultural crops, Europe 2212
  - peas 5851
    - Turkey 1470
    - Uttar Pradesh 1480
  - vegetables, Sichuan 9349
- Chromatomyia syngenesiae**
  - ecology, interspecific competition, models 11014
  - food plants 221
  - horticultural crops, Europe 2212
  - parasitoids 221, 1877, 5855, 7365
  - Senecio jacobaea*, UK 11014
- Chromolaena odorata**
  - biological control agents, evaluation 3294
  - control, biological control 861, 2216, 11028
  - extracts
    - effects
      - Callosobruchus maculatus* 8952
      - Coleoptera 4801
    - insecticidal properties 8952, 8958
  - toxicity
    - Rhyzopertha dominica* 10036
    - Tribolium castaneum* 8958
- Pareuchaetes pseudoinsulata* 2216
- South Africa 2216



- Chromolaena odorata** cont.  
*Zonocerus variegatus* 10026
- Chromones**, effects, *Spodoptera litura* 6405
- Chrotogonus**, predators 274
- Chrysanthemoides moniliferum**, natural enemies, South Africa 8265
- Chrysanthemum**  
*Liriomyza piriarmicae*, Honshu 5722  
 Mexico 6840
- Chrysanthemum balsamita**, extracts, toxicity, insect pests 2733
- Chrysanthemum coronarium**  
*Bemisia tabaci*  
 damage 12036  
 Honshu 12036
- Chrysanthemum leucanthemum** (see *Leucanthemum vulgare*)
- Chrysanthemum vulgare**, Araneae, Switzerland 2759
- Chrysanthemums** (*Dendranthema indicum* and *D. morifolium*)  
*Aphis gossypii* 4539  
 California 8940  
 resistance 8949  
*Bemisia tabaci* 3988  
 fields  
*Amitus fuscipennis*, Colombia 10279  
 parasitoids, Honshu 10014  
*Frankliniella occidentalis*, damage 6816  
 habitats, *Hippodamia convergens*, California 8940  
 insect pests, control, chemical control 7603  
 insecticides  
 effects 10992  
 residues 12038  
 insects, pollination 8935  
*Liriomyza trifolii* 10275, 12037  
*Lygocoris lucorum*  
 damage 7975, 10013  
 Honshu 7975  
*Nysius plebeius*, Korea Republic 7979  
*Spodoptera exigua* 7636  
*Thrips nigropilosus* 529  
 Thysanoptera, Honshu 10014  
 Turkey 1470
- Chryseida bennetti**  
 biology, behaviour 5062, 11167  
 hosts, *Acanthoscelides obtectus* 5062
- Chrysidae**, hosts, *Trypoxylon rogenhoferi* 9264
- Chrysididae**, evolution 9107
- Chrysilla versicolor** (see *Phintella versicolor*)
- Chrysobothris**  
*Acacia*, Sudan 6776  
 taxonomy 3757
- Chrysobothris chrysostigma**, taxonomy 3757
- Chrysocharis oscinidis**  
 hosts, *Liriomyza* 4516  
 lettuces, fields, Arizona 4516
- Chrysocharis penithea**  
 hosts, *Liriomyza trifolii* 298  
 Taiwan 298
- Chrysoschraon brachypterus**  
 alpine grasslands, Austria 9739  
 ecology, habitats 9739
- Chrysoschraa**  
 distribution, China 6943  
 taxonomy 6943
- Chrysodeixis acuta**  
 soybeans  
 resistance 6538  
 Zimbabwe 8691
- Chrysodeixis agnata**  
 Jiangxi 8053  
 parasitoids 8053, 9426
- Chrysodeixis chalcites**  
 control, biological control 4527  
 soybeans, Zimbabwe 8691  
 tomatoes, Israel 4527
- Chrysodeixis includens**  
 biochemistry, endocrine system 7094  
 biology  
 behaviour 1998  
 development 6532, 10759, 10763  
 control, chemical control 1474, 7731  
 cotton, Florida 4667  
 fertilizers, effects 10763  
 field crops, Mississippi 588  
 food plants 2192, 10759
- Chrysodeixis includens** cont.  
 insecticides  
 resistance 588  
 toxicology 2192  
 natural enemies 6232  
 parasitoids 1998, 4667, 6188  
 pathogens 1248, 4143  
 physiology  
 defence mechanisms 104  
 immune system 9222  
 soybeans 6532, 10763  
 Georgia 9753  
 Louisiana 1474, 7731  
 resistance 2487, 3497, 9753
- Chrysoesthia**  
 biology, life cycle 8303  
 UK 8303
- Chrysogasterini**  
 biology 4894  
 Europe 4894  
 morphology 4894  
 taxonomy 4894
- Chrysolina aurichalcea**  
*Artemisia princeps* 815  
 biology 815
- Chrysolina banksi**, biochemistry, secretions 5886
- Chrysolina cerealis**  
 ecology, habitats 8287  
*Thymus praecox*, UK 8287
- Chrysolina polita**, *Mentha aquatica*, UK 7994
- Chrysomela falsa**  
 ecology 7921  
*Salix*, Alaska 7921
- Chrysomela lapponica**  
 biochemistry, secretions 1657  
 plant extracts, metabolism 1657
- Chrysomela scripta**  
 genetics, genes, diversity 10223  
*Populus*, Arizona 8878  
*populus*, Iowa 10223  
*Populus*, resistance 8878
- Chrysomela tremula**  
 biology, life cycle 6760  
 natural enemies 6760  
*Populus*, France 6760
- Chrysomelidae**  
*Acremonium coenophialum*, interactions 10747  
 biochemistry, cuticle 5943  
 biology 11998  
 control, chemical control 11998  
 distribution  
 Korea Democratic People's Republic 11377  
 Maryland 744  
 Poland 1155-1156  
 Romania 3125  
 ecology 3009  
*Festuca arundinacea* 10747  
 genetics, sex chromosomes 11241  
 Japan 4856  
 nature conservation 1086  
 Poland 3009  
 taxonomy 4856, 11377  
 UK, books 12101  
*Zanthoxylum*  
 damage 11998  
 Shanxi 11998
- Chrysomphalus aonidium**  
 biology, life history 3557  
*Citrus*, South Africa 7815  
 control, biological control 7815  
 distribution, Hungary 7978  
*Dracaena marginata*, Hungary 7978  
 forecasting 3557  
 oranges, Hunan 3557  
 parasitoids 3557, 7256
- Chrysomphalus dictyospermi**, parasitoids 6172
- Chrysomya putoria**, biology, behaviour 3994
- Chrysonotomyia**  
 hosts, *Liriomyza trifolii* 298  
 Taiwan 298  
 taxonomy 4830
- Chrysonotomyia okazaki**  
 hosts, *Liriomyza trifolii* 298  
 Taiwan 298
- Chrysopa**  
 biology 2136
- Chrysopa** cont.  
 ecology, population dynamics 2576  
 evolution 2136  
 insecticides, effects 6522  
 lucerne, fields, Czech Republic 6522  
 pesticides, effects 2576  
 prey, *Aphis gossypii* 2576  
 watermelons, fields, Honshu 2576
- Chrysopa formosa**  
 apples, orchards, Sichuan 3094  
 diets 10350  
 ecology  
 arthropod communities 3094  
 population dynamics 9443  
 fields, habitats, Hungary 9443  
 monitoring, traps 9443  
 rearing techniques 10350
- Chrysopa oculata**  
 irrigation, effects 8679  
 lucerne, fields, Manitoba 8679  
 pheromones 3835
- Chrysopa pallens**  
 diets 10350  
 ecology, population dynamics 9443  
 fields, habitats, Hungary 9443  
 monitoring, traps 9443  
 morphology, reproductive organs 9114  
 rearing techniques 10350
- Chrysopa perla** (see *Chrysoperla harrisii*)
- Chrysopa quadripunctata**  
*Chrysopa slossonae*, hybridization 11442  
 morphology, differentiation 11442
- Chrysopa septempunctata** (see *C. pallens*)
- Chrysopa sinica** (see *Chrysoperla nipponensis*)
- Chrysopa slossonae**  
*Chrysopa quadripunctata*, hybridization 11442  
 morphology, differentiation 11442
- Chrysopa viridana**  
 ecology, population dynamics 9443  
 fields, habitats, Hungary 9443  
 monitoring, traps 9443
- Chrysopa vulgaris** (see *Chrysoperla carnea*)
- Chrysoperla**  
 biology, oviposition 4627  
 cotton, fields, Kenya 1626  
 morphology 9821  
 olives, orchards, Spain 4627  
 prey, *Helicoverpa armigera* 1626  
 taxonomy 5804
- Chrysoperla carnea**  
 biology 7196  
 behaviour 11428  
 development 3214  
 cabbages, fields, France 1505  
 control, Aphididae, lettuces 11817  
 cotton  
 fields  
 California 1636  
 Egypt 1633  
 crops, habitats, Delhi 4101  
 diets 10350  
 ecology, population dynamics 9443  
 ectoparasites 8362  
 faba beans, fields, Germany 7736  
 Fabaceae, Israel 1723  
 fields  
 habitats  
 Hungary 9443  
 Maharashtra 5153  
 hops, fields, Washington 6834  
 insecticides  
 effects 456  
 pathogenicity 9482  
 toxicity 10593  
 lucerne, fields, Libya 3486  
 monitoring, traps 9443  
 nuclear polyhedrosis viruses, effects 9441  
 parasitoids 5153  
 pecans, habitats, USA 2122  
 pesticides, effects 1633  
*Populus*, forests, France 6760  
 prey  
*Acyrtosiphon pisum* 11428  
 Aphididae 267  
*Aphis gossypii* 1636  
*Chrysomela tremula* 6760  
*Coccinella septempunctata* 4101  
*Eupoecilia ambiguella* 4577, 5540  
 Hemiptera 1723



***Chrysoperla carnea* cont.**

prey cont.

insect pests 3214

*Ostrinia nubilalis* 9482*Phorodon humuli* 6834

Thysanoptera 1505

rearing techniques 267, 10350

Slovakia 7196, 11363

vineyards

Germany 4577

habitats, Germany 5540

***Chrysoperla downesi*, genetics, differentiation 6006*****Chrysoperla externa***

biological control agents, evaluation 317

biology 317

prey, *Parlatoria cinerea* 9275***Chrysoperla harrisii***

ecology, population dynamics 9443

fields, habitats, Hungary 9443

genetics, differentiation 6006

monitoring, traps 9443

***Chrysoperla johnsoni***

biology, behaviour 3975

genetics, differentiation 6006

songs 3975

***Chrysoperla lucasina*, control, *Aphis gossypii*, melons 9821*****Chrysoperla mediterranea*, biology, environmental factors 9450*****Chrysoperla nipponensis***prey, *Acaphylla theae* 8821

tea, plantations, China 8821

***Chrysoperla plorabunda***

biology, behaviour 3975

genetics, differentiation 6006

***Chrysoperla rufilabris***

biology 4113

diets 3133

hops, fields, Washington 6834

insecticides, toxicity 4318

parasitoids 9421

pecans, habitats, USA 2122

prey

insects 3133

Lepidoptera 4113

*Phorodon humuli* 6834

rearing techniques 3133, 4113

***Chrysophtharta bimaculata****Eucalyptus regnans*, Tasmania 2663

insecticides, effects 6162

predators 2663, 6162

**Chrysopidae**

apples, orchards, Switzerland 8760

cotton, fields, Beijing 10912

ecology

habitats 4674

population dynamics 6437, 7657,

7759, 8631

farming systems, effects 1428

Guizhou 5791

habitats, Spain 4674

herbicides, effects 6202

insecticides, effects 10912

*Nerium oleander*, Honshu 797

orchards, Switzerland 8750

pears, orchards, Italy 2562

pecans, orchards, Israel 5566

potatoes, habitats, Hokkaido 7759

prey

*Aphididae* 1428, 6437, 7657, 7759,

8760, 8826

*Cacopsylla pyri* 2562*Helicoverpa armigera* 10912*Monellia caryella* 5566*Phthorimaea operculella* 7755

taxonomy 5791

tobacco, fields, Greece 8826

weeds, Switzerland 2759

wheat

fields

Germany 1428, 7657, 8631

Syria 6437

***Chrysopsis villosa*, *Ophraella* 1956*****Chrysoplatycerus*, taxonomy 11117*****Chrysopophthorus*, taxonomy 9374*****Chrysopophthorus hungaricus*, distribution, Netherlands 9374*****Chrysopophthorus petiolus*, distribution, France 9374*****Chrysoteuchia topiaria***

forecasting 3544

*Vaccinium*, Wisconsin 3544***Chrysothamnus*, *Europiella*, Holarctic Region 11127*****Chrysothamnus nauseosus***

habitats, predatory insects, Colorado

4465

*Trirhabda nitidicollis*, Colorado 4465***Chrysothamnus nauseosus hololeucus****Aciurina trixa*

Arizona 2727

galls 2727

***Chrysothamnus viscidiflorus***

habitats, predatory insects, Colorado

4465

*Trirhabda nitidicollis*, Colorado 4465***Chusquea*, *Strongylothes*, Panama 7001*****Chymomyza amoena***

Ontario 11361

symbionts 11361

***Chymomyza costata*, biology, environmental factors 6072*****Chrysoperla plorabunda*, songs 3975*****Chytridiopsis typographi*, hosts, *Ips****typographus* 7957***Cicadella viridis***

control, integrated control 11840

fruits, Shanxi 11840

**Cicadellidae***Acremonium coenophialum*, interactions

10747

Australia 6953

biology

dispersal 3928

life history 8969

blackberries, Poland 1551

*Capsicum annum*, Hungary 2733

control, chemical control 4650

cotton, Karnataka 4650

crops

Sweden 1300

USA 4393

ecology 3009

habitats 4036, 7255

*Festuca arundinacea* 10747

grasses, Mexico 4036

monocotyledons, Czech Republic 7255,

8969

Nearctic Region 11084

parasitoids 4036, 4838

plant extracts, toxicity 2733

plant pathogens, transmission 631

Poland 3009

predators 4393

taxonomy 6953, 11083-11084

tomatoes, Pakistan 631

**Cicadellinae**

Asia 11121

taxonomy 11121

**Cicadelloidea**

Czech Republic 5077

ecology, population dynamics 5077

**Cicadidae**

biology, behaviour 193

North America 11318

sound production 11318

***Cicadulina chinai***

maize 10720

plant pathogens, transmission 10720

weeds, Egypt 10720

***Cicer arietinum* (see Chickpeas)*****Cichorium endivia* (see Endives)*****Cichorium intybus* (see Chicory)*****Cicindela***

Colorado 6983

genetics, ribosomal DNA 8196

***Cicindela dorsalis***

biology, mating behaviour 7346

taxonomy 926

***Cicindela dorsalis media*, distribution, South**

Carolina 4040

***Cicindela germanica***

biology, habitats 3074

distribution, UK 3074

***Cicindela marutha*, physiology, senses 7082*****Cicindela melancholica*, genetics, ribosomal**

DNA 8196

***Cicindela paludosa*, genetics, ribosomal**

DNA 8196

***Cicindela sperata sperata*, Colorado 6983****Cicindelidae**

biology

behaviour 10258

mating behaviour 7346

Colorado 6983

distribution, Venezuela 7271

India 10258

lawns and turf, habitats, Tianjin 10008

prey, *Spodoptera depravata* 10008

taxonomy 1841, 6983, 7271

Yemen 1841

***Cicindella circumpecta*, biochemistry, enzymes 5869*****Cifuna locuples*, *Zizania caduciflora*, damage 7510*****Cinara***

biology 755

Michigan 8372

predators 8372

taxonomy 1

***Cinara atrotibialis*, ecology, environmental factors 11341*****Cinara brauni*, *Pinus nigra*, Bulgaria 755*****Cinara cembrae*, *Pinus peuce*, Bulgaria 755*****Cinara confinus*, *Abies alba*, Bulgaria 755*****Cinara costata*, *Picea abies*, Bulgaria 755*****Cinara cupressi***

biology, reproduction 8932

*Cupressus*, Kenya 8932*Cupressus lusitanica*

damage 7963

East Africa 1705

Kenya 7963, 8933

resistance 1705

*Thuja orientalis*, Bulgaria 755***Cinara formosana****Pinus massoniana*, Zhejiang 6787*Polyrhachis vicina*, interactions 6787***Cinara juniperi*, *Juniperus communis*, Bulgaria 755*****Cinara montanica***

morphology 1

*Pinus mugo*, Europe 1***Cinara piceae*, *Picea abies*, Bulgaria 755*****Cinara pilicornis****Picea abies*

Bulgaria 755

Finland 5664-5665

Switzerland 4738

pollutants, effects 5664-5665

***Cinara pinea****Pinus sylvestris*

Bulgaria 755

resistance 5670

***Cinara pini***

morphology 1

*Pinus sylvestris*

Bulgaria 755

Europe 1

***Cinara pruinosa*, *Picea abies*, Bulgaria 755*****Cinara quadris****Pinus nigra*, Spain 12011

taxonomy, new species 12011

***Cinara setosa*, morphology 9129*****Cinara todocola****Abies sachalinensis*, Hokkaido 778

control, cultural control 778

***Cinara viridescens*, *Picea abies*, Bulgaria 755*****Cinclus cinclus*, pesticides, residues 10602*****Cinnamomum*, insect pests, Kerala 1734*****Cinnamomum camphora*, *Schizotetranychus****lushanensis*, Jiangxi 12048***Cinnamomum mercadori*, extracts, toxicity,***Callosobruchus chinensis* 6828***Cinnamomum zeylanicum****Eudemopsis archimedis*, Andaman and

Nicobar Islands 1718

oils, effects, *Acanthoscelides obiectus*

5692

***Cionomimus burkei****Phoradendron*, Mexico 4853

taxonomy, new species 4853

***Cionomimus grossus****Phoradendron*, Mexico 4853

taxonomy, new species 4853

***Cionomimus obrieni****Phoradendron*, Mexico 4853

taxonomy, new species 4853

***Cionomimus woodi****Phoradendron*, Mexico 4853



- Cionomimus woodi** *cont.*  
taxonomy, new species 4853
- Circulifer haematiceps**  
plant pathogens, transmission 10902  
sesame, Turkey 10902
- Circulifer opacipennis**  
food plants 1569  
plant pathogens, transmission 1569
- Circulifer tenellus**  
control, biological control 5802  
oranges, Turkey 10880  
plant pathogens, transmission 10880  
sugarbeet, California 5802
- Cirrospiloideus**, hosts, *Lethata anophthalma* 7913
- Cirsium**  
*Agapanthia villosoviridescens*, Germany 1226  
*Palloptera*, Norway 7289
- Cirsium arvense**  
biological control agents, evaluation 6845  
habitats, parasitoids, Maryland 6854  
insects 2755  
damage 2765  
Germany 8986  
natural enemies  
Maryland 6854  
Virginia 6845, 7360  
*Rhinocyllus conicus*, Utah 4786  
*Terellia ruficauda*, North America 5728
- Cirsium canescens**, insects, Nebraska 8975
- Cirsium eriophorum**, insects, Germany 8986
- Cirsium niponicum**, *Epilachna niponica*, Honshu 2017
- Cirsium oleraceum**, insects, Germany 8986
- Cirsium palustre**, insects, Germany 8986
- Cirsium spinosissimum**, *Oreina elongata* 214
- Cirsium ucrainicum**, *Rhinocyllus conicus*, Europe 8005
- Cirsium vulgare**  
control, biological control 2218, 2754  
*Eucosma cana*, UK 6859  
natural enemies, North Carolina 2218  
*Platyptilia carduidactyla*, Washington 5725
- Cisaberoptus kenya**  
mangoes  
Uttar Pradesh 9895  
varietal reactions 9895
- Cissampelos owariensis**, extracts, effects, Coleoptera 4801
- Cissus**, *Aleuroclava*, Tamil Nadu 21
- Cissus antarctica**, *Amblyseius*, Queensland 735
- Cistus**  
*Osmia tricornis*  
pollination 5148  
Spain 5148
- Cistus laurifolius**, *Hemineura bigoti*, Spain 2729
- Citral**, attractants, *Spilarctia obliqua* 4369
- Citrons**, *Anoplophora versteegii*, Assam 9884
- Citrullus fistulosus**, *Bactrocera cucurbitae* 11837
- Citrullus lanatus** (see Watermelons)
- Citrus** (see also English names of individual species and hybrids)  
Acari, China 8782  
*Aleurocanthus woglumi* 10046  
Florida 3554  
Texas 4550  
*Aleurothrixus floccosus* 2581  
UK 11901  
Aleyrodidae, Israel 3555  
*Anastrepha suspensa*, Florida 1571-1573, 1777, 1780  
*Anoplophora malasiaca* 7848  
Kyushu 9062  
*Aonidiella*, California 4590, 9890  
*Aonidiella aurantii*  
Guangdong 666  
New South Wales 4847  
Queensland 6680  
*Aonidiella orientalis*, Iran 3553  
Aphididae 4587  
Japan 3556  
*Archips argyrosipilus*, USA 11982  
arthropod pests  
California 8787
- Citrus** *cont.*  
arthropod pests *cont.*  
control, integrated control 10877  
damage 9889  
Florida 11896  
Hunan 9889  
Parana 663  
arthropods, Queensland 4588  
*Bactrocera caryae* 9882  
*Bactrocera dorsalis*, Hawaii 2236  
*Bactrocera minax*, China 9887  
*Brevipalpus phoenicis*, Sao Paulo 3558  
*Cappaea taprobanensis* 6678  
*Ceratitidis*, South Africa 667  
*Ceratitidis capitata*  
Greece 4386, 7849  
Israel 8778  
*Ceroplastes floridensis*, Israel 7845  
Cicadellidae, Turkey 1566  
*Circulifer opacipennis* 1569  
Coccidae, New Zealand 6679  
*Coccus pseudomagnoliarum*, Yugoslavia 6684  
commodities  
*Anastrepha suspensa*  
Florida 1776, 1779  
resistance 1779  
*Ceratitidis capitata* 8778  
*Conogethes punctiferalis*  
China 7852  
damage 7852  
*Dialeurodes citri*, Turkey 3561  
*Diaphorina citri*, Fujian 9886  
*Diaprepes abbreviatus*  
damage 9888  
varietal reactions 9885  
Diaspididae, South Africa 7815  
*Diploschema rotundicollis*, Rio Grande do Sul 10876  
*Ecdyotlopha aurantium*, Trinidad and Tobago 6683  
*Eutetranychus banksi*, Mexico 3336  
Florida 4593  
*Frankliniella bispinosa*, Florida 259  
habitats  
*Aleurodothrips fasciapennis*, Florida 5554  
*Allothrombium pulvinum*, Iran 9352  
beneficial insects, New Zealand 640  
*Ontsira anoplophorae*, Kyushu 9062  
*Vespula germanica*, Greece 7849  
insect pests  
control, biological control 11903  
Italy 11903  
monitoring, traps 1294  
*Linepithema humile*, Western Australia 3552  
orchards  
Aphelinidae, Guangdong 666  
*Aphytis melinus*, California 3958  
beneficial arthropods, Brasilia 3559  
beneficial insects  
Iran 3553  
Italy 11899  
Yugoslavia 6684  
*Endaphis maculans*, Florida 4593  
*Eretmocerus debachi*, Turkey 11895  
*Eupalopsis jamesi*, New South Wales 4847  
parasitoids, South Africa 1574  
Phytoseiidae  
Sao Paulo 8786  
Southern Africa 1567  
predatory arthropods, South Africa 2579  
predatory mites, Hunan 9889  
*Panonychus citri*  
China 8785  
Guangdong 668, 10875  
outbreaks 8787  
Zhejiang 11890  
*Pantomorus cervinus*, Victoria 5556  
*Papilio demodocus*, South Africa 1574  
*Parabemisia myricae*, Turkey 11895  
*Parlatoria*, Sao Paulo 6687  
pest control  
Florida 3560  
reviews 643  
Shanxi 10877  
*Phyllocnistis citrella*  
Arunachal Pradesh 9891
- Citrus** *cont.*  
*Phyllocnistis citrella* *cont.*  
Florida 3551  
Maharashtra 6681  
Northern Territory 1565  
resistance 6681, 9891  
*Phyllocoptruta oleivora*, Florida 7850  
*Pseudococcus*, New Zealand 640  
Psyllidae  
resistance 1570  
South Africa 1570  
*Pulvinaria flavescens*  
Brasilia 3559  
resistance 3559  
*Scirtothrips aurantii*, Southern Africa 1567  
*Selenaspidus articulatus*, Sao Paulo 2580  
Tephritidae, Goias 7840  
Thysanoptera, Florida 5554  
*Toxoptera citricidus*  
Central America 4591  
Cuba 6682  
*Trioza erythrae*, South Africa 2579  
*Unaspis citri*, Florida 7847  
*Unaspis yanonensis*, quarantine 11902
- Citrus aurantiifolia** (see Limes)
- Citrus aurantium** (see Sour oranges)
- Citrus clementina**, Aphis, France 4592
- Citrus deliciosa** (see Mandarins)
- Citrus jambhiri**  
*Anoplophora versteegii*, Assam 9884  
*Brevipalpus jambhiri*, Indian Punjab 10084
- Citrus karana**  
*Eutetranychus orientalis*  
Rajasthan 9883  
varietal susceptibility 9883
- Citrus limettoides**, *Anoplophora versteegii*, Assam 9884
- Citrus limon** (see Lemons)
- Citrus limonia**, *Anoplophora versteegii*, Assam 9884
- Citrus medica** (see Citrons)
- Citrus paradisi** (see Grapefruits)
- Citrus reshini** (see Mandarins)
- Citrus reticulata** (see Mandarins)
- Citrus sinensis** (see Oranges)
- Citrus tristeza closterovirus**  
vectors  
Aphididae 3556  
Citrus 4587  
*Toxoptera citricidus* 11368
- Citrus volkameriana**  
*Pulvinaria flavescens*  
Brasilia 3559  
resistance 3559
- Cladius pectinicornis**  
parasitoids 7970  
roses, Honshu 7970
- Cladocera**, insecticides, effects 8573
- Cladochaeta ptyelophila**  
biology 2516  
cassava, fields, Ecuador 2516  
*Cephus erythrocephalus*, interactions 2516  
taxonomy, new species 2516
- Cladonia convoluta**, extracts, antifeedants, *Spodoptera littoralis* 8610
- Cladonia stellaris**, extracts, antifeedants, *Spodoptera littoralis* 8610
- Cladosporium**  
growth regulators, degradation 4299  
vectors  
*Frankliniella occidentalis* 3579  
insect pests 1272
- Cladosporium cladosporioides**, toxins, effects, *Heliothis virescens* 5459
- Cladoxycanus**, taxonomy 8068
- Clambidae**, distribution, Nicaragua 3112
- Clania crameri** (see *Eumeta crameri*)
- Clanis bilineata**  
ecology, distribution 3495  
sampling 3495  
soybeans, Hebei 3495
- Clarias batrachus**  
insecticides  
effects 6361, 8559, 11621  
residues 1366  
toxicity 2286
- Clarias gariepinus**, insecticides, residues 1370



- Clarkia concinna*, *Proserpinus clarkiae*, California 8945
- Clarkia unguiculata*, *Proserpinus clarkiae*, California 8945
- Claspetomyia*  
morphology 7671  
wheat, Shaanxi 7671
- Clastopteridae**, ecology 4022
- Clausena dunniana*, extracts, toxicity, Coleoptera 6864
- Clavgralla**  
control  
chemical control 11785  
integrated control 8704  
cowpeas  
Chad 8704  
Nigeria 11785
- Clavgralla gibbosa*, pigeon peas, resistance 10774
- Clavgralla shadabi*  
control, chemical control 1488  
cowpeas, Nigeria 1488
- Clavgralla tomentosicollis*  
control  
chemical control 595, 1488  
cultural control 595  
cowpeas  
Benin 6549  
damage 6549  
Nigeria 595, 1488
- Clementines**  
*Aonidiella citrina*, Italy 11899  
arthropod pests, Italy 10878
- Cleobora mellyi*  
*Boronia megastigma*, habitats, Tasmania 1737  
*Eucalyptus regnans*, plantations, Tasmania 2663  
prey  
*Chrysophtharta bimaculata* 2663  
*Ctenarytaina thysanura* 1737
- Cleogonus rubetra*  
*Andira inermis*, Costa Rica 11912  
biology, behaviour 11912
- Cleonis trivittatus*, *Astragalus mollissimus*, New Mexico 8988
- Cleopus japonicus*  
biology, environmental factors 6069  
control, *Buddleja davidii*, evaluation 6069
- Cleothera notata* (see *Hyperaspis notata*)
- Clepsis consimilana*, distribution, Hungary 3117
- Clepsis spectrana*  
control 10049  
cut flowers 10049
- Clerodendrum inerme*, extracts, insecticidal properties 6826
- Clethra barbinervis*, *Pidonia tsuyukii*, Honshu 5707
- Cleyera japonica*, habitats, *Agelena limbata*, Japan 2110
- Climatic change**  
effects, plant protection 2207  
pest control, models 7481  
plant protection, conferences 2814
- Clinocestrus**  
hosts, *Prophyllonistis epidrimys* 5794  
Palaeartic Region 9087  
taxonomy 9087
- Clinodiplosis ciliatus*  
morphology 7671  
wheat, Shaanxi 7671
- Clitea picta*, *Aegle marmelos*, Uttar Pradesh 9662
- Clitostethus arcuatus*  
control, *Siphoninus phillyreae*, woody plants 11996  
distribution, Germany 8313
- Clivina attenuata*, distribution, South Asia 3122
- Clivina australasiae*  
biology, behaviour 9445  
crops, fields, New Zealand 9445  
prey, invertebrates 9445
- Clivina collaris*  
biology, behaviour 203  
fields, Belgium 203
- Clivina fossor*  
barley, fields, Finland 3203  
cereals, fields, Finland 7644
- Clivina fossor* cont.  
green manures, effects 7644  
monitoring, traps 5533, 10693  
prey, *Rhopalosiphum padi* 3203  
raspberries, fields, Quebec 5533  
wheat, fields, Finland 10693
- Clivina pallida*, distribution, Maine 9359
- Clivinema coalinga*  
California 6185  
prey, *Orthezia annae* 6185
- Clofentezine**  
control  
*Panonychus ulmi* 8456  
apples 4560  
effects, *Neoseiulus fallacis* 3344  
resistance  
*Panonychus ulmi* 4562, 7530, 11857  
*Tetranychus urticae* 2279
- Clonidine**, effects, *Spodoptera litura* 7033
- Clostera cupreata**  
control, chemical control 3625  
*Populus*, Uttar Pradesh 3625
- Clostera fulgurita**  
control, chemical control 3625  
*Populus*, Uttar Pradesh 3625
- Closterocerus**, taxonomy, revisions 4843
- Closterocerus tricornutus* (see *C. trifasciatus*)
- Closterocerus trifasciatus*  
biology, behaviour 11353  
ecology, population dynamics 11353  
hosts, *Phyllonorycter hamadryadella* 11353  
*Quercus*, habitats, Virginia 11353
- Clostridium perfringens*, insecticides, effects 10519
- Clothing**, insecticides, penetration 4070, 4232
- Clovers** (see *Trifolium*)
- Cloves** (*Syzygium aromaticum*)  
extracts, effects, *Callosobruchus maculatus* 9003  
insect pests, Kerala 1734
- Clubiona corrugata**  
ecology, population dynamics 8820  
tea, plantations, Hunan 8820
- Clubiona japonicola**  
ecology, population dynamics 8820  
tea, plantations, Hunan 8820
- Clubionidae**  
biology, behaviour 2579  
checklists, Uruguay 8321  
*Citrus*, orchards, South Africa 2579  
ecology, population dynamics 11929  
monitoring, traps 11929  
olives, orchards, Italy 11929  
prey, *Trioxa erytrae* 2579
- Cluster beans** (see *Guar*)
- CME-134** (see *Teflubenzuron*)
- Cnaphalocrocis medinalis**  
Andhra Pradesh 7631  
biological control agents, evaluation 570  
biology, migration 7699  
China 7509  
control 6491  
chemical control 9722  
diets 571  
ecology, population dynamics 7508  
fertilizers, effects 9723  
forecasting 6491, 7508  
genetics, cytogenetics 11246  
insecticides  
resistance 10730  
toxicity 11586, 11744  
Kyushu 7160  
*Magnaporthe grisea*, interactions 2464  
monitoring, traps 7509  
parasitoids 570, 9094  
pheromones 7631  
Philippines 11246  
rice 2464, 11744  
China 2446  
damage 2446, 2455  
expert systems 6491  
India 570  
Kyushu 7699  
Orissa 9722  
Philippines 2455  
resistance 571, 573-574, 10730  
Shandong 10730  
Uttar Pradesh 9723
- Cnemidophorus gularis*, insecticides, residues 11614
- Cnemidophorus sexlineatus*, insecticides, residues 11614
- Cneorane*, soyabeans, resistance 6538
- Cnephasia jactatana*  
biochemistry, pheromones 675  
biology, life cycle 1068  
control, chemical control 6692  
kiwifruits, New Zealand 675, 6692  
pheromones 675  
rearing techniques 1068
- Cnicus benedictus*, extracts, toxicity, insect pests 2733
- Coccidae**  
control, biological control 11091  
ornamental conifers  
Hungary 8901  
varietal susceptibility 8901  
ornamental plants, Sicily 12023  
predators 4829  
taxonomy 3737, 3741  
books 5770
- Coccidoxenoides peregrinus*  
control, *Planococcus citri*, *Citrus* 5555  
hosts, *Planococcus citri* 5555
- Coccidulini**, taxonomy 4866
- Coccinea**, conferences 1790
- Coccinella**  
biology, environmental factors 7727  
crops, habitats, Bihar 7727  
insecticides, effects 5414  
maize, fields, Egypt 5414  
prey  
*Aphis craccivora* 7727  
*Spodoptera exigua* 5414  
taxonomy 8083
- Coccinella novemnotata*, lucerne, fields, Libya 3486
- Coccinella septempunctata* var. *divaricata*  
biology, environmental factors 7727  
crops, habitats, Bihar 7727  
prey, *Aphis craccivora* 7727
- Coccinella septempunctata*  
apples, orchards, West Virginia 651  
biochemistry, chemical composition 9219  
biology 6160, 9335  
behaviour 1992, 5168, 5392, 6176, 9323  
defence mechanisms 4100  
environmental factors 7727  
reproduction 10145
- Brassica**, fields, Uttar Pradesh 5489
- crops**  
fields, Yugoslavia 6166  
habitats  
Bihar 7727  
Delhi 4101  
Michigan 5392  
distribution, USA 4041  
ecology 6166  
population dynamics 2576, 3227, 4101, 5392, 5489, 6437  
spatial distribution 651  
Europe 9335  
faba beans  
fields  
Belgium 7734  
Germany 7736  
farming systems, effects 1428  
fields, Sweden 586  
Formicidae, interactions 8256  
genetics, genetic markers 3152  
growth regulators, effects 444  
insecticides  
effects 543  
pathogenicity 9482  
toxicity 439, 4308, 10609, 10697  
kairomones 5168  
lucerne  
fields  
Iowa 3484  
Libya 3486  
monitoring, traps 5392  
natural enemies 4101  
parasitoids 7358  
pesticides, effects 2576  
predators 4100, 9219, 9418  
prey  
*Acyrtosiphon kondoi* 2479  
*Acyrtosiphon pisum* 586



**Coccinella septempunctata** *cont.*  
prey *cont.*

Aphididae 543, 1428, 5168, 6437, 8955, 10690, 11869  
*Aphis affinis* 8955  
*Aphis craccivora* 7727  
*Aphis fabae* 7734, 7864, 8256  
*Aphis gossypii* 2576  
*Ceratovacuna lanigera* 2606  
*Diuraphis noxia* 6176, 11717  
*Lipaphis erysimi* 4101, 5489, 6160  
lucerne, insect pests 3484  
*Mythimna separata* 256  
*Ostrinia nubilalis* 9482  
*Sitobion avenae* 439, 7667  
*Quercus*, forests, Hungary 9323  
sugarcane, fields, Taiwan 2606  
sunflowers, fields, Hungary 7864  
UK 3227, 4308, 8256  
watermelons, fields, Honshu 2576  
wheat  
fields  
China 256  
France 11717  
Germany 1428  
Henan 10690  
Shandong 7667  
Syria 6437  
UK 543, 10697  
Yugoslavia 11869  
**Coccinella septempunctata brucki**  
biology, environmental factors 7359, 9146  
*Dinocampus coccinellae*, interactions 9146  
ecology, population dynamics 7759  
growth regulators, effects 9146  
Hokkaido 7359  
parasitoids 9146  
potatoes, habitats, Hokkaido 7759  
prey, Aphididae 7759  
**Coccinella septempunctata septempunctata**, Europe 7359  
**Coccinella transversalis**  
biology, environmental factors 7727  
*Boronia megastigma*, habitats, Tasmania 1737  
crops, habitats, Bihar 7727  
prey  
*Aphis affinis* 8955  
*Aphis craccivora* 7727  
*Ctenarytaina thysanura* 1737  
**Coccinella transversoguttata**  
hops, fields, Washington 6834  
prey, *Phorodon humuli* 6834  
**Coccinella transversoguttata biinterrupta**, genetics, genetic markers 3152  
**Coccinella undecimpunctata**  
biology, environmental factors 3215  
cotton, fields, Egypt 1633  
distribution, USA 4041  
lucerne, fields, Libya 3486  
pesticides, effects 1633  
prey, *Rhopalosiphum padi* 3215  
**Coccinellidae**  
apples, orchards, Switzerland 8760  
Asia 204, 9116, 10095  
biology  
behaviour 204, 6176  
environmental factors 6541, 7727  
books 12092  
carrots, fields, Poland 1495  
cassava, fields, Congo 6565  
cereals, fields, Syria 3426  
control, *Phenacoccus manihoti*, cassava 6567  
cotton  
fields  
Bangladesh 9947  
Beijing 10912  
Jiangsu 715  
Kenya 1626  
crops  
fields, Yugoslavia 6166  
habitats, Italy 11833  
distribution  
Bangladesh 3116  
Israel 8322  
ecology 3009, 6166  
population dynamics 2576, 3227, 6437, 7657, 8631

**Coccinellidae** *cont.*

*Eucalyptus regnans*, plantations, Tasmania 2663  
farming systems, effects 1428  
Formicidae, interactions 8256  
genetics, genetic markers 3152  
hedges, Germany 2113  
herbicides, effects 6202  
insecticides, effects 6162, 6522, 9947, 10912  
irrigation, effects 8679  
lucerne  
fields  
Czech Republic 6522  
Manitoba 8679  
morphology, reproductive organs 9116  
*Nerium oleander*, Honshu 797  
oats, fields, Poland 10703  
orchards, Switzerland 8750  
*Papaver somniferum*, fields, Madhya Pradesh 8828  
parasitoids 7358  
peaches, orchards, Italy 9850-9851  
pesticides, effects 2576  
*Phaseolus vulgaris*, fields, Kenya 6541  
Poland 3009  
prey  
Aphididae 1428, 6437, 6565, 7657, 8760, 8826, 10703  
*Aphis fabae* 6541, 8256  
*Aphis gossypii* 2576, 11833  
*Caviariella aegopodii* 1495  
*Chrysophtharta binaculata* 2663, 6162  
*Helicoverpa armigera* 1626, 10912  
*Myzus persicae* 8828, 9850  
*Myzus varians* 9851  
*Phthorimaea operculella* 7755  
*Rhopalosiphum padi* 9692  
taxonomy 3777, 4865, 8077, 10095  
tobacco, fields, Greece 8826  
Turkey 1149  
UK 8256  
watermelons, fields, Honshu 2576  
weeds  
habitats, Yugoslavia 6166  
Switzerland 2759  
wheat  
fields  
Germany 1428, 7657, 8631  
Syria 6437  
**Coccinia**, habitats, insects, Delhi 4101  
**Coccipolipus**, vectors, *Adalia bipunctata* 11423  
**Coccoidea**  
biology 12023  
*Citrus*, Italy 11903  
control 12023  
distribution  
Canada 920  
Italy 12023  
genetics, nucleotide sequences 160  
morphology 12023  
ornamental plants, Sicily 12023  
pathogens 6239  
phylogeny 160  
Thailand 6239  
**Coccophagoides**, control, *Parlatoria oleae* 7870  
**Coccophagus**  
*Citrus*, orchards, Yugoslavia 6684  
control  
Coccidae 11091  
*Saissetia oleae*, olives 6709  
**Coccophagus afrangiatius**  
morphology 11091  
Spain 11091  
taxonomy, new species 11091  
**Coccophagus gurneyi**  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640  
**Coccophagus insidiator**  
hosts, *Gossyparia spuria* 2671  
*Ulmus*, habitats, California 2671  
**Coccophagus lycimnia**  
*Citrus*, orchards, Yugoslavia 6684  
hosts, *Coccus pseudomagnoliarum* 6684  
**Coccophagus malhusi** group  
Assam 1819  
taxonomy 1819

**Coccytrypes**

Pacific Islands 1810  
taxonomy 1810  
**Coccus pseudomagnoliarum**  
biology 6684  
*Celtis sinensis*, California 8864  
*Citrus*, Yugoslavia 6684  
monitoring 8864  
natural enemies 6684  
**Coccus viridis**  
*Citrus*, Florida 11896  
control  
chemical control 11896  
hot water treatment 7965  
*Gardenia jasminoides* 7965  
**Coccygomimus disparis** (see *Pimpla disparis*)  
**Cochlicella acuta**  
France 8403  
parasitoids 8403  
**Cochylini**, distribution, Brazil 3108  
**Cochylis atricapitana**  
biology, life cycle 1982  
control, *Senecio jacobaea* 1982  
*Senecio jacobaea*, Victoria 1982  
**Cochylis hospes**, biology, development 1109  
**Cochylis molliculana**, distribution, UK 4039  
**Cocoa** (*Theobroma cacao*)  
*Adoretus versutus*, Fiji 7884  
*Azteca chartifex*, Bahia 10910  
cacao swollen shoot badnavirus, transmission, models 5598  
*Carmentia foraseminis*, Panama 8081  
*Conopomorpha cramerella*, Malaysia 9942  
*Conotrachelus humeropictus*, Rondonia 10911  
Diptera  
Costa Rica 4646  
pollination 4646  
extracts, attractants, Diptera 4646  
*Helopeltis theivora*  
damage 6729  
Malaysia 3607, 6729  
Hemiptera, Ghana 4645  
insect pests, Honduras 8825  
insects, Venezuela 5597  
litter (plant), Formicidae, Sao Paulo 1624  
*Paraseiulella plumipilis*, Nicaragua 3762  
plantations  
Formicidae  
Bahia 3085  
Costa Rica 3608  
Ghana 4645, 11960  
**Coconut oil**  
control, *Planococcus lilacinus*, *Jasminum auriculatum* 3666  
effects, *Callosobruchus chinensis* 1765  
**Cocoonuts** (*Cocos nucifera*)  
*Amrineus cocofolius*, Sao Paulo 4624  
arthropod pests, monitoring 10895  
Coleoptera, Tamil Nadu 3582  
*Dysmicoccus*, Asia 5575  
*Graeffea crouanii*, Tonga 10899  
*Leucopholis coneophora*, Kerala 4625  
*Lincus lobuliger*, Bahia 8806  
*Opisina arenosella*  
Gujarat 5576, 11927  
Karnataka 9917  
Kerala 1600  
*Oryctes rhinoceros*  
Andaman and Nicobar Islands 1599  
damage 1599  
India 8453  
Tamil Nadu 3583  
pest control  
conferences 5763  
India, reports 1782  
plantations  
beneficial insects  
Tamil Nadu 3582  
Tonga 10899  
Formicidae, Tanzania 9915  
parasitoids, Kerala 1600  
*Pseudothrips wayi*, Tanzania 9915  
*Rhynchophorus palmarum* 8254  
Venezuela 7862  
*Rhynchophorus phoenicis*, Cote d'Ivoire 9916  
*Temnorhynchus coronatus* 1601



**Coconuts cont.**

- Turnaca acuta*  
outbreaks 11928  
Tamil Nadu 11928  
*Xylotrupes gideon* 7467
- Cocos Islands**, coconuts, *Dysmicoccus* 5575
- Cocos nucifera* (see Coconuts)
- Cocoyam** (see *Colocasia esculenta*)
- Cod liver oil**, pesticides, residues 3360, 3367
- Codiaeum*, *Icerya aegyptiaca*, Australia 9085
- Codiaeum variegatum*, insect pests, Bangladesh 5393
- Codonopsis pilosula*, extracts, antifeedants, Lepidoptera 11700
- Coeloccephalopion aculeatum* (see *Apion aculeatum*)
- Coeloides sordidator*, hosts, *Pissodes* 757
- Coelomera lanio*, physiology, reproduction 4899
- Coelophora saucia**  
prey, *Ceratovacuna lanigera* 2606  
sugarcane, fields, Taiwan 2606
- Coelotes terrestris*, biology, behaviour 1204
- Coenomyia**, taxonomy 10091
- Coenomyiidae**, China 10310
- Coenonympha hero*, distribution, Slovakia 3077
- Cofana spectra**  
control, chemical control 7713  
ecology, population dynamics 7713  
rice, Philippines 7713
- Coffea*, *Aleurocanthus woglumi* 10046
- Coffea arabica* (see Coffee)
- Coffea canephora* (see Coffee)
- Coffee** (*Coffea* spp.)  
*Araecerus fasciculatus*, Nicaragua 9937  
*Ceropria kerleyi*, Indonesia 10108  
commodities, insecticides, residues 2787  
habitats  
Acari, Queensland 5596  
*Euschistus heros*, Parana 5395  
parasitoids, Thailand 4644  
*Hypothenemus hampei* 3603  
Cote d'Ivoire 9939  
damage 2619, 3602, 9938  
Ecuador 6728  
El Salvador 9938  
India 3600  
Mexico 2619  
New Caledonia 258, 397  
North America 9939  
Tamil Nadu 3602  
insect pests 2617  
control, biological control 3605  
resistance 9941  
insecticides  
effects 2618  
residues 3606
- Lemyra*, Karnataka 700
- Ochetomyrmex auropunctatus*  
Cuba 4088  
damage 4088
- Perileucoptera coffeella*  
Cuba 1621-1622  
Minas Gerais 3606, 5595  
Parana 4643  
Puerto Rico 11959  
varietal susceptibility 11959
- pest control  
Kenya 3601, 9943  
Mexico 3605
- Pheidole megacephala*, Cuba 4642
- plantations  
*Biosteres arisanus*, USA 9940  
Formicidae, Minas Gerais 701  
*Prophantis smaragdina*, Kenya 3604  
*Saissetia coffeae*, India 1623  
Tephritidae, USA 9940  
*Xylotrechus quadripes*, Thailand 4644, 6727
- Coilia dussumieri*, insecticides, residues 11647
- Coix lachryma*, Acrididae, Tamil Nadu 6143
- Cola acuminata*, *Sophorhinus insperatus* 3819
- Cola nitida*, *Sophorhinus insperatus* 3819
- Colaspis*, potatoes, Argentina 7750, 10782
- Colaspis aerea aerea*, taxonomy 3750
- Colaspis foersteri*, taxonomy 3750
- Colaspis prospectans*, taxonomy 3750

**Cold resistance**

- Anticarsia gemmatilis* 10276
- Bactrocera minax* 9887
- Choristoneura fumiferana* 8120
- Cryptolestes ferrugineus* 8997
- Delia radicum* 9317
- Drosophila melanogaster* 3857
- Hippodamia convergens* 9316
- insects 4911, 8392  
reviews 3809
- Lithobius forficatus* 5063
- Onychiurus arcticus* 4006
- Plutella xylostella* 9328
- Cold storage**  
control  
*Anastrepha suspensa*, fruits, commodities 1775  
insect pests, horticultural crops, commodities 4799  
stored products pests 1774  
effects  
*Aphelinus asychis* 4004  
*Cydia pomonella* 6265
- Coleomegilla maculata**  
crops, fields, Maryland 9755  
ecology, population dynamics 9755  
genetics 1949  
insecticides, pathogenicity 9482  
lucerne, fields, Iowa 3484  
Maryland 1949  
prey  
*Acyrtosiphon kondoi* 2479  
*Leptinotarsa decemlineata* 1949  
lucerne, insect pests 3484  
*Ostrinia nubilalis* 9482
- Coleomegilla maculata lengi**  
bacterial insecticides, effects 2156  
insecticides, pathogenicity 8436  
prey, *Leptinotarsa decemlineata* 8436
- Coleophora**  
biology, life history 1797  
morphology 1797  
Nearctic Region 1797  
taxonomy 1797  
USA 1797
- Coleophora caelebipenella*, Asteraceae, Europe 584
- Coleophora cartilaginella*  
distribution, Spain 584  
*Ononis spinosa*, Spain 584
- Coleophora deauratella*, *Trifolium*, Nearctic Region 1797
- Coleophora ditella*, *Artemisia*, Europe 584
- Coleophora involucrella*, *Santolina chamaecyparissus*, Spain 584
- Coleophora laricella**  
*Larix occidentalis*  
British Columbia 779  
damage 779
- Coleophora mayrella*, *Trifolium*, Nearctic Region 1797
- Coleophora pyrenaica*, *Thymus vulgaris*, Spain 584
- Coleophora semicineria**  
distribution, France 584  
food plants, France 584
- Coleophora serratella**  
*Betula pendula* 738  
*Betula pubescens* 738  
biology, behaviour 738
- Coleophora solenella*, *Artemisia campestris*, Spain 584
- Coleophora trifolii**, *Trifolium*, Nearctic Region 1797
- Coleophora vicinella**, lucerne, Spain 584
- Coleoptera**  
Algeria 275  
Anhui 10290  
apples, orchards, China 8754  
Asia 8074  
attractants 1650  
*Bacillus thuringiensis*, resistance 7382  
barley, fields, Germany 6451  
bibliographies 11055  
biochemistry, cuticle 5943  
biology 5089  
behaviour 4408, 7220, 8967  
environmental factors 6541  
*Bromelia hemisphaerica*, Mexico 811  
buildings 1760  
checklists, Italy 5088

**Coleoptera cont.**

- commodities, books 5776
- control, heat treatment 1760
- Cycadaceae, Australia 5622
- Denmark 7264
- distribution  
Austria 2027  
Italy 5088-5089  
Lithuania 1153  
Puerto Rico 10326  
Sweden 10327  
USA 4038
- ecology 4677, 10057  
arthropod communities 11403  
colonization 9283  
environmental factors 4676  
fires 11978  
habitats 1113, 1126, 1673, 3626, 8754  
insect communities 10290  
population dynamics 191, 729, 774, 10695  
species diversity 3129  
fertilizers, effects 10695
- field crops  
Estonia 10695  
UK 7566
- forest trees  
Europe 1647  
Germany 1649, 11977  
North America 1647  
pollination 6772  
Puerto Rico 3626  
Senegal 6772  
wood  
Germany 1642  
Russia 10057
- forests  
Costa Rica 4677  
Florida 11978  
litter, Panama 4676  
Scandinavia 5620  
West Virginia 7594
- fungi, Germany 1130
- genetics  
genetic diversity 10239  
sex chromosomes 11241
- Germany 1650
- grasslands  
Germany 1126  
Nebraska 2020
- insecticides, effects 1310, 7566
- kiwifruits, France 1561
- lentils, fields, Turkey 1482
- lucerne, fields, West Virginia 8682
- maize  
commodities  
damage 4800  
Mexico 4800
- Maryland 3004
- microorganisms 3004
- monitoring, traps 3632, 6126, 7906, 11978
- morphology 5089, 8074  
genitalia 4877
- Myxomycota, North America 11294
- natural enemies 4677
- Netherlands 1113
- New Zealand 905
- old fields, South Africa 7262
- orchards, Slovakia 7802
- Paraserianthes falcata*, India 2679
- parasitoids 7948, 8850
- pathogens 2162, 7956, 10425, 10433
- Phaseolus vulgaris*, fields, Kenya 6541
- pheromones, production 971
- physiology, pheromones, reviews 11191
- Pinopsida, Sweden 1683
- Pinus*, Honshu 7948
- Pinus rigida*, forests, New Jersey 9984
- Pinus sylvestris*, UK 2696
- Populus*, Germany 1673
- predation, analysis 9383
- predators 248, 275, 2020, 3063, 4038, 11115
- preservation 257
- prey  
*Aphis fabae* 6541  
*Aspidiotus destructor* 5543  
*Hypera postica* 8682  
*Myzus persicae* 9850



**Coleoptera** *cont.*

- prey *cont.*
    - Sitobion avenae* 4408
  - Prosopis cineraria*
    - pollination 3649
    - Rajasthan 3649
  - Protea repens* 4751
  - Quercus*, UK 729, 774
  - rain forests, Malaysia 7906
  - sampling 2077
  - Slovenia 5083
  - soyabeans, Minas Gerais 7729
  - stored products, Costa Rica 3704
  - Tabebuia chrysotricha*, Sao Paulo 8358
  - taxonomy 905, 4821, 5088, 5776, 5817, 8074
  - catalogues 1837
  - UK 9283
  - wheat, fields, UK 4408, 5410
  - wild plants
    - Europe 8967
    - pollination 8967
    - seeds, Namibia 3684
  - woodlands, UK 3632
  - zoogeography, Turkmenistan 10293
- Coleoscurus**, taxonomy 6415
- Coleoscurus carex**
  - Pakistan 6415
  - taxonomy, new species 6415
- Coleoscurus kifayati**
  - bananas, Pakistan 6415
  - taxonomy, new species 6415
- Coleoscurus mardi**
  - rice, Pakistan 6415
  - taxonomy, new species 6415
- Coleosoma octomaculatum**
  - prey, *Acaphylla theae* 8821
  - tea, plantations, China 8821
- Coleotechnites**
  - Benula*, Quebec 4692
  - biology, behaviour 4692
  - ecology, population dynamics 4692
- Coleus**, insect pests, reports 2797
- Colias crocea**, distribution, UK 7272
- Colias dimera**, parasitoids 4850
- Colias interior**
  - biology, diapause 3030
  - food plants 3030
  - genetics, hybridization 3030
- Colias lesbia**
  - predators 7732
  - soyabeans 7732
- Colias philodice**
  - biology, diapause 3030
  - food plants 3030
  - genetics, hybridization 3030
- Colias philodice** × **Colias interior**
  - biology, diapause 3030
  - food plants 3030
- Colias philodice form eriphyle**
  - biochemistry, enzymes 1884
  - biology, reproduction 1884
- Colinus virginianus**
  - insecticides
    - effects 6372, 10596
    - toxicity 2326
  - pesticides, effects 8567, 11627
- Collards** (*see* Kale)
- Collaria oleosa**
  - biology, development 9672
  - wheat, Federal District 9672
- Collembola**
  - Amazonas 3072
  - attractants 1650
  - Austria 3073
  - biochemistry, digestion, enzymes 7069
  - Canary Islands 11367
  - crops, fields, Germany 5401
  - ecology 3128, 6756, 6799, 7177, 10254
  - arthropod communities 11403
  - colonization 9283
  - ecosystems 5082
  - environmental factors 3641
  - habitats 1126, 3082-3083
  - diversity 4021
  - population dynamics 6086, 6088, 7946
  - Europe 8062
  - Finland 3369
  - fire, effects 3072
  - forest litter, Russia 9456

**Collembola** *cont.*

- France 8308
  - Germany 1650
  - grasslands, Germany 1126
  - Greece 3128
  - green manures, effects 9286
  - habitats, Slovakia 4021
  - insecticides, effects 3369, 10691
  - litter, France 3083
  - mined land, Western Australia 3082
  - mosses, Switzerland 10580
  - Netherlands 6086
  - Nothofagus pumilio*, Chile 5660
  - orchards, Slovakia 7802
  - physiology, muscles 10179
  - Pinus koraiensis*, Korea Republic 7946
  - Pinus rigida*, forests, New Jersey 9984
  - Pseudotsuga menziesii*, habitats, British Columbia 6799
  - Quercus coccifera*, litter, Greece 3641
  - Quercus rotundifolia*, forests, Portugal 6756
  - sampling 6086
  - soil 10254
  - taxonomy 47, 8062, 9067
  - UK 9283
  - urban soils, Japan 7177
  - wheat
    - fields, UK 10691
    - UK 4409
- Collinsia parviflora**, *Euphydryas editha*, Nevada 8989
- Collinsia torreyi**, *Occidryas editha*, California 11327
- Colloquia** (*see* Conferences)
- Colobesthes taprobana**, taxonomy, synonyms, *Pulastya acutipennis* 49
- Colocasia**, insect pests, reports 2797
- Colocasia esculenta**
  - Aphis gossypii*, Tonga 7489
  - arthropod pests 4483
  - habitats, *Aphidius colemani*, Tonga 7489
  - pest control, New Caledonia 8719
- Colocasiomyia aloecasiae**, *Alocasia odora*, pollination 3194
- Colocasiomyia xenolocasiae**, *Alocasia odora*, pollination 3194
- Colombia**
  - Andropogon gayanus*, *Acromyrmex landolti* 5454
  - Annona*, insect pests 11908
  - Bemisia tabaci* 175
  - Bombacopsis quinata*, seeds, *Dysdercus bimaculatus* 2689
  - Brachiaria*, insect pests 7720
  - Caryodendron orinocense*, *Panacea prola* 2601
  - cassava
    - Amblyseius villacarmelensis* 4833
    - fields, *Hyperaspis notata* 2514
    - habitats, *Amblyseius limonicus* 5478
    - Mononychellus progresivus* 4497
    - Mononychellus tanajao* 5479
    - Phenacoccus herreni* 2514
    - Tetranychus urticae* 2515
  - cotton, *Heliothis virescens* 2627
  - Echinochloa colonum*, *Blissus leucopterus* 2483
  - fields, *Amitus fuscipennis* 10279
  - forests, *Rhopalocera* 7250
  - Formicidae 2092
  - Golofa* 2875
  - Heliothis virescens* 4979
  - Lepidoptera 5090
  - Leptopharsa gibbicarina* 719
  - Leucaena leucocephala*, *Heteropsylla cubana* 8884
  - Lycanidae 5096
  - maize, commodities, insect pests 11050
  - mistletoes, Formicidae 2087
  - oil palms
    - Lincus tumidifrons* 7867
    - Rhynchophorus palmarum* 2594
  - pastures, Formicidae 5457
  - Phaseolus vulgaris*
    - Empoasca kraemerii* 2490
    - pest control 6540
  - Trialeurodes vaporariorum* 5461
  - Pinus patula*, Geometridae 8907

**Colombia** *cont.*

- rice
    - fields
      - Araneae 3472, 11742
      - Elenchus* 3470
      - parasitoids 9724, 9726
    - Hydrellia wirthi* 1457, 3471, 3475, 10738
    - insect pests 9724
    - Oebalus ornatus* 9726
    - Rupela albinella* 3458
    - Tagosodes* 3470
    - Tibraca limbativentris* 9725
  - Scarabaeidae 10441
  - Solanum quitoense*, *Neoleucinodes elegantalis* 3565
  - tobacco, *Faustinus apicalis* 5600
  - Trichogramma lopezandiniensis* 4850
  - Vespidae 3197
- Colomerus vitis**
  - ecology, population dynamics 6667
  - grapes
    - Australian Capital Territory 9868
    - Germany 6667
  - predators 4124, 9868
  - prey, *Typhlodromus pyri* 6667
- Colon**, taxonomy 3754, 9081
- Colon viennensis**, taxonomy 9081
- Colopterus**, forest trees, Ohio 7903
- Colopterus truncatus**
  - ecology, population dynamics 4030
  - Illinois 4030
- Colotrechnus ignotus**, hosts, *Procecidochares flavipes* 2726
- Colpognathus helvus**, hosts, *Platyptilia carduidactyla* 5725
- Columbia livia**, insecticides, effects 10583
- Columbia livia**
  - insecticides, residues 4311
  - pesticides, effects 1341
- Colydium**, taxonomy 9082
- Colydium elongatus**
  - distribution, Netherlands 8875
  - prey, Coleoptera 8875
  - Quercus robur*, Netherlands 8875
  - taxonomy 9082
- Comb honey**, *Galleria mellonella* 3297
- Combretum imberbe**, extracts, effects, *Callosobruchus maculatus* 9003
- Comephorus dybowskii**, insecticides, residues 4322
- Commelina**, *Neolema cordata* 917
- Commelina communis**, *Neolema ovalis* 917
- Commelina diffusa**, *Mouralia tinctorides* 705
- Commelina erecta**, *Oulema elongata* 917
- Commelina crispa**, *Oulema variabilis* 917
- Commellus**, taxonomy 8088
- Commellus cedilla**
  - grasses, North America 8088
  - taxonomy, new species 8088
- Commellus hyphen**
  - grasses, North America 8088
  - taxonomy, new species 8088
- Commellus semicolon**
  - grasses, Montana 8088
  - taxonomy, new species 8088
- Commodities**
  - Coleoptera, books 5776
  - pest control, West Africa 9032
  - pesticides
    - residues 10575, 10577
    - reports 5762
- Comoros**, maize, *Chilo partellus* 8646
- Comostolopsis germana**
  - New South Wales 823
  - parasitoids 823
- Comperiella bifasciata**
  - growth regulators, toxicity 11607
  - hosts
    - Chrysomphalus aonidium* 3557
    - Diapsididae 7256
    - oranges, plantations, Hunan 3557
- Comperiella lemniscata**
  - biology 6172
  - hosts, *Chrysomphalus dictyospermi* 6172
  - morphology 6172
- Compositae** (*see* Asteraceae)
- Composts**, *Macrocheles zaheri*, Egypt 9092
- Compisilura concinnata**
  - hosts, *Lymantria dispar* 4687, 10942



***Compsilura concinnata* cont.**

*Quercus rubra*, habitats, Massachusetts 10942

**Computer software**, plant protection, Germany 380

**Computer techniques**, plant protection, Europe 2059

**Concanavalin A**, effects, *Acyrtosiphon pisum* 11566

***Conchyloctenia punctata***

sweet potatoes  
damage 11801  
Southern Africa 11801

***Conchyloctenia tigrina***, aubergines 8976

**Conferences**

- 1994 Symposium on Armyworms 5848, 6461-6463, 6735-6736  
Advances in biological control of insect pests 8033  
Advances in coconut research and development 5763  
Advances in the chemistry of insect control 877  
Agricultural development and environmental conservation in the Tropical Region 11669-11670, 11749  
Agriculture and the environment - conflict and co-existence 1414, 1792  
Agrobiology 1274  
Agronomy Society of New Zealand 1787  
Agrophyto 1375  
All-Russian Scientific-Production Conference 6915  
Allelopathy in agroecosystems (agriculture and forestry) 8034  
American Chemical Society 2318-2320, 2813, 8128  
American Peanut Research and Education Society 873  
American Society for Horticultural Science 11064  
American Society for Horticultural Science, Northeast Region Annual Meeting 11063  
American Society for Horticultural Science, Southern Region Annual Meeting 866  
American Society for Horticultural Science, Western Regional Annual Meeting 9028  
An assessment of the biology and management strategies of *Bemisia* spp. from an international perspective 2815  
*Anastrepha suspensa* 1571-1573, 1774-1779  
Annual Conference of the Entomological Society of New Zealand 1646  
Applications of isotopes and radiation in conservation of the environment 3389  
Arable farming under CAP reform 11065-11066  
Asian Regional Rice-Fish Farming Research and Development Workshop 4814  
Association Nationale pour la Protection des Plantes 1314  
Association of Austrian Plant Breeders 548, 703  
Ball's Circle: A Merry Go 'Round in Systematics 4819-4824, 4836, 4877-4881, 5009, 5023, 5033, 5072-5073, 5076, 5084, 5102, 5385, 5765  
Behavioural ecology of aphidophagous insects 878  
Beltwide Cotton Conferences 2311, 2629-2631, 2812, 9026  
Biochemical Society 4969  
Biology and management of *Orobanche* 8003, 8007-8009, 8035  
Biomarkers of human exposure to pesticides 2318-2320, 2813  
Brighton Crop Protection Conference, Weeds 429, 509-512, 783, 2241-2246, 2267-2268, 2369-2373  
Canadian Society for Horticultural Science 11064  
Comparing glasshouse and field pesticide performance 3156, 3723, 5119-5120, 5365, 5720

**Conferences cont.**

- Computer modelling in fruit research and orchard management 639  
Computers in agricultural extension programs 1641  
Congress on Medicinal Plant Research 2249, 2740  
Contrasts between biologically-based process models and management-oriented growth and yield models 8921  
Crop protection 3259  
Current themes in pharmaceuticals and agrochemicals — principles and differences 9552  
Cut flowers for export 869  
Danish Plant Protection Conference 1714  
Design of mitochondrial electron transport inhibitors as agrochemicals 5279-5280  
Dispersal polymorphism of insects: its adaptation and evolution 9104, 9148, 9229, 9296, 10118  
DNA transformation of non-drosophilids 6911  
EAPR 93 Actes. 12e Conference Triennale de l'Association Européenne pur la Recherche sur la Pomme de Terre 10785  
Ecdysone Workshop 11218-11224, 11242, 11271-11274, 11524, 11683-11684  
Ecologically safe and pesticide-free technologies in plant production 6910  
Ecology, management and restoration of intermountain annual rangelands 11025-11027  
Ecology of Aphidophaga 878  
Elm leaf beetle management symposium 4707  
Elm Leaf Beetle Management Symposium 4708-4710  
Engineering as a tool to reduce pesticide consumption and operator hazards in horticulture 3158-3160, 3162, 3166-3171, 3406, 3560, 6431, 6600  
Entomology for defence services 833-835, 846-849  
Environmental assessment management through social forestry in tribal regions 3625  
Environmental behaviour and ecotoxicology of organic pollutants 4298-4299, 4330-4332, 5278, 5309-5311, 5359  
European Association for Potato Research 600, 865, 872  
European Grassland Federation 6504  
European Workshop on Invertebrate Ecophysiology 74-75, 239, 526, 880  
Extending weed science research to influence agricultural policy 10525  
Faba bean production and research in China 589, 874  
Farming for the environment 615, 6916  
Field margins, integrating agriculture and conservation 3724, 5410, 5712, 7238-7244, 7496, 7564  
Florida State Horticultural Society 2716, 2718  
Forestry: integrated pest management programs 720, 739, 745, 760, 770, 871, 1660-1661  
Forestry research in Zimbabwe 1785  
Frontier in tropical fruit research 669  
Future of potato in agriculture 864  
Genetic improvement of trees and shrubs, pest/disease control, exchange, evaluation and joint testing for energy purposes 8878, 9029  
Genetics of entomopathogenic nematode—bacterium complexes, Irish Republic 10455-10457, 10470  
German Conference on Weed Biology and Control 2368, 2759  
German Society for General and Applied Entomology 907-908, 938-941, 950, 956, 966, 972, 977, 988-990, 996, 1077-1080, 1101-1104, 1123-1128, 1138, 1161, 1179, 1221-1223, 1282, 1307-1308, 1420, 1428-1429, 1431,

**Conferences cont.**

- German Society for General and Applied Entomology cont.  
1475-1476, 1508, 1523, 1562, 1569, 1647-1649, 1670, 1673, 1701, 1725-1728, 1745, 1753, 1759, 1770-1772, 5827  
Giornate Fitopatologiche 1305, 3313  
Global climatic change: its implications for crop protection 2207, 2814  
Grassland and society 6504  
Grassland management and nature conservation 483, 579  
Grasslands for our world 5444, 5701, 6503  
Herbicide Resistance Workshop 4257, 9591, 9593  
Horticultural exploitation of recent biological developments 2208  
Iberian Congress of Entomology 3720  
Illinois Specialty Growers Association 868  
Illinois State Horticultural Society 868  
Impact of genetic variation on sustainable agriculture 10065  
Impact of symbiosis on invertebrate physiology, ecology and evolution 1139-1140  
Improvement of cereal quality by genetic engineering 2775  
Increasing handling, processing and marketing efficiency in the grain post-harvest system 4795-4796  
Indian Phytopathological Society 2520, 10462  
Indian Potato Association 5475-5476  
Individuals, populations and patterns in ecology 6914  
Influence of understorey cover and surrounding habitat on interactions between beneficial arthropods and pests in orchards 399, 643, 648-650, 652, 668, 879  
Insect behavioral ecology 1190, 1199-1200, 1275, 3917-3918, 4211-4212, 4573  
Insect control 877  
Insect molecular science 6911  
Insect pathogens and insect parasitic nematodes 7071  
Insect Pathogens and Insect Parasitic Nematodes 7096, 7380, 7392-7403  
Insect pathogens and insect parasitic nematodes 7404-7423, 7425-7442, 7484-7486, 7717, 7767, 7830, 7866, 7869, 7920, 7956-7957, 7973-7974, 7993  
Integrated control in cereal crops 7185, 7297, 7565-7566, 7640-7645, 7653-7663, 7673, 7676, 7734  
Integrated control in field vegetable crops 12087  
Integrated control of food crop pests in the Sahel 3477  
Interacting stresses on plants in a changing climate 5508  
International Agricultural Engineering Conference 6138-6139  
International Association on Water Quality 3155  
International Colloquium on Invertebrate Pathology and Microbial Control 10062  
International Conference on Controlled Atmosphere and Fumigation in Grain Storages 6912  
International Conference on Farming Systems on the Loess Plateau of China 1593, 1786  
International Conference on Harmful and Beneficial Organisms in Grassland, Pastures and Turf 11068  
International Conference on Pests in Agriculture 10699  
International Congress of Entomology 399, 643, 648-650, 652, 668, 879  
International Congress of Pesticide Chemistry 7544, 9223, 9399, 9752, 9956, 10343-10345, 10558, 10592, 10595, 10670, 10681, 11069



Conferences *cont.*

- International Congress of Plant Protection 871
- International Congress on Hazelnut 2589, 2809, 4612-4614
- International Energy Agency Bioenergy Agreement 8878, 9029
- International Geranium Conference 10011
- International Grassland Congress 5444, 5701, 6503
- International IUPAC Symposium on Mycotoxins and Phycotoxins 9699
- International Mango Symposium 8789-8790, 9025
- International Open Meeting on Fruit Flies of Economic Importance 5766
- International Organisation for the Biological and Integrated Control of Noxious Animals and Plants 3722
- International Pineapple Symposium 3719
- International Plant Protection Congress 720, 739, 745, 760, 770
- International Rhododendron Conference 4188, 4574
- International Seminar on the Integrated Control of Enemies of Plants in the Sahel 9032
- International Society of Citriculture 7842
- International Strawberry Symposium 655, 870, 7832-7835
- International Symposium of Scale Insect Studies 1790
- International Symposium of the IOBC/OILB Global Working Group 'Ecology of Aphidophaga' 8365-8368, 8625, 8631-8632, 8639, 8701, 8826, 9031
- International Symposium on Aphids 4888, 4897-4898, 4981, 5017, 5027, 5036, 5038-5039, 5065, 5078, 5086, 5105, 5387, 5460, 5536, 5567-5568, 5670
- International Symposium on Crop Protection 203, 275, 427
- International Symposium on Pear Growing 6652, 9027, 9846
- International Symposium on Pesticide Science 10477
- International Symposium on Pesticides Application Techniques 5767-5768
- International Symposium on the Ecological Effects of Arctic Airborne Contaminants 6913, 10661
- International Symposium on Timing Field Production of Vegetables 10795
- International Symposium on *Vaccinium* Culture 8769-8770
- International Working Group on Stored-product Protection 2816-2817
- International Workshop on Orobanchae and Striga Research 8003, 8007-8009, 8035
- IUPAC International Congress of Pesticide Chemistry 8345
- Landscape approach to regional planning: the future of the Mediterranean landscapes 6781
- Medicinal and aromatic plants for human welfare 3718
- Minimizing human exposure to pesticides 1354-1361, 1789
- National Integrated Pest Management Forum 3721
- National Symposium on Biological Control 11067
- National Workshop on Redlegged Earth Mite, Lucerne Flea and Blue Oat Mite 11405, 11704, 11706, 11754-11758, 11763-11764
- Natural products as a source for new agricultural chemicals II 5228, 5275-5277, 5695
- Natural substances in plant secretions 8353
- Nature development and insect fauna 1111-1119, 1788
- New York State Vegetable Conference 6908

Conferences *cont.*

- New Zealand Plant Protection Conference 6020-6021, 6269-6270, 6275-6276, 6457, 6507-6513, 6521, 6524-6525, 6577-6579, 6597, 6604-6605, 6613, 6743, 6847, 6875
- Non chemical weed control 10385, 11033-11035
- Northeastern Weed Science Society 10403, 10631, 10933
- Nutrition and environmental health 10064
- Panel discussion on future of potato in agriculture 5475-5476
- Pest control in Asia and the Pacific 391, 808
- Pest management: biologically based technologies 8032
- Pesticide formulations 875
- Pesticide Science Society of Japan 876
- Plant nutrition -from genetic engineering to field practice 6481
- Plant protection and environmental conservation in the tropical region: related with use of agrochemicals in the tropics 11669-11670, 11749
- Plant protection in the Sahel 6918
- Plant quarantine in Asia and the Pacific 5549, 6598
- Population dynamics of plant-inhabiting mites 2505-2510, 2512-2513, 2811
- Postharvest handling of tropical fruits 6675, 6866, 6909
- Postharvest technology of tropical horticultural commodities 2395, 2577
- Potato Association of America 5764
- Practical aspects of some economically important fruit trees in Taiwan 2563
- Proceedings of the 17th Annual Conference of the Pesticide Science Society of Japan 876
- Recent advances in uzi fly research 6028, 6052, 6271-6272
- Recherches-système en agriculture et développement rural 10744, 10926
- Regulation of biosynthesis and function of isopentenoids 8166, 8600
- Resistance Management Workshop for International Scientists 11548
- Rotifer Symposium 1368-1369
- Royal Entomological Society of London 6911
- Sampling to make decisions 6917, 10495-10496
- Science, technology: the challenge to education 8031
- Scientific Meeting of the Institute of Plant Protection 5769
- Significance and regulation of soil biodiversity 10292
- Sino-Polish workshop on development of population modelling 216, 242-243, 686, 711
- SISSTA Seminar 1615
- Soil and Sediment Contamination Analysis Workshop 9646
- Soil ecotoxicology 3739
- Sorption and degradation of pesticides and organic chemicals in soil 497-498
- Spanish Society of Applied Entomology 10061
- Spanish Weed Science Society 9030, 10464
- Spodoptera frugiperda* 1813, 2004, 2272, 2424-2426
- Strategies for improving persistence of forage legumes 863
- Structure-activity and structure-property relationships (SARs) in environmental chemistry and toxicology 2254, 2301-2305
- Swedish Crop Protection Conference 10063
- Swedish Plant Protection Conference 11556
- Symposium of the Global I.O.B.C. Working Group 878
- Symposium of the Royal Entomological Society 10072

Conferences *cont.*

- Symposium on Pesticide Formulations and Application Systems 875
- Symposium on Pesticide Residues and Environmental Pollution 6476
- Symposium on Small Scale Vegetable Production and Horticultural Economics in Developing Countries 9794
- Techniques of loquat production 2810
- The value and use of plant resistance to insects in integrated crop management 1289
- Third International Congress on Hazelnut 9907
- Tomato genetics and breeding 10066
- Toxicology, conservation and biodiversity 10399, 10520, 10560
- Understanding crop protection mixtures 8348, 8458-8459, 8489, 8568-8569, 8640, 10499-10500
- United Planters' Association of Southern India 867
- Use of molecular markers in sorghum and pearl millet breeding for developing countries 6477, 6479
- Washington State Horticultural Association 1538, 1547
- Water Quality International 11573
- Water Quality International '94 Part 2: WATERMATEX' 94 3155
- Weed Science Society of America 2227, 2250-2252, 10525
- Wheat Symposium: Limits to Production and Quality 1787
- Working together on groundnut virus diseases 10067
- Workshop on AI in Agriculture and Natural Resource Management 5253
- Workshop on Ecological Foundations of Sustainable Agriculture 6919
- Workshop on the Characterization of Pest Organisms 6919
- World Congress on Medicinal and Aromatic Plants for Human Welfare 2230, 6818, 6832
- Zoological Society of France 1285
- Congo**
- cassava
- Aphididae, predators 6565
- Mononychellus progresivus* 4497
- Phenacoccus manihoti* 8712
- Tetranychidae 8714
- Drosophila melanogaster* 1002, 8200
- Drosophila simulans* 1922
- forests, Termitidae 8856
- Termitidae 3237
- Conidiobolus**
- hosts
- Bemisia tabaci* 1261, 7421
- Brevicoryne brassicae* 1263
- Myzus persicae* 4175
- Conidiobolus coronatus**
- biology, environmental factors 6228
- hosts
- Bemisia tabaci* 1261, 7421
- Coptotermes formosanus* 9474
- insects 6228
- Myzus persicae* 4175
- Conidiobolus obscurus**
- biology, dispersal 4147
- hosts
- Acyrtosiphon pisum* 1269
- Myzus persicae* 4175
- Conidiobolus thromboides**, biology, dispersal 4147
- Coniesta ignefusalis**
- biology 8657
- behaviour 6478
- control, cultural control 2442
- ecology, population dynamics 2442
- millets
- damage 6478
- Niger 2442, 6478
- Nigeria 8657
- monitoring, traps 8657, 9717
- parasitoids 2442
- Pennisetum americanum*, Niger 9717
- Coniferous forests**, Lycosidae, Finland 10368



- Coninomus constrictus** (see *Cartodere constricta*)
- Coniopteryx esbenpeterseni**, Slovakia 11363
- Coniopteryx loipetsederi**, distribution, Slovakia 11363
- Coniopteryx tjederi**, distribution, Slovakia 11363
- Coniopteryx westwoodi**, pecans, habitats, USA 2122
- Conium maculatum**, Lepidoptera, Illinois 4783
- Conoderinae**, morphology, reproductive organs 7007
- Conoderus**  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
sweet potatoes, South Carolina 5482
- Conogethes punctiferalis**  
*Citrus*  
China 7852  
damage 7852  
control, trapping 7852  
pheromones 8139  
Shandong 8139
- Conomyrma insana**  
ecology 1191  
spatial distribution 7248  
New Mexico 1191  
Sao Paulo 7248
- Conophthorus banksianae** (see *C. resinosae*)
- Conophthorus coniperda**  
pheromones 9981  
*Pinus strobus*  
Ontario 9981  
USA 9981
- Conophthorus radiatae**  
parasitoids 8913  
Pinopsida, California 10961  
*Pinus radiata*, California 8913  
plant pathogens, transmission 8913, 10961
- Conophthorus resinosae**  
pheromones 9982  
*Pinus*, Ontario 9982  
*Pinus banksiana*, Ontario 7938
- Conopomorpha civica**, spices, Kerala 1734
- Conopomorpha cramerella**  
biology, behaviour 9942  
cocoa, Malaysia 9942  
control, integrated control 9942
- Conopomorpha sinensis**  
biology 10885  
development 5019  
*Litchi chinensis*, Taiwan 10885  
parasitoids 10885
- Conopomorpha syngamma** (see *Acrocercops syngamma*)
- Conorhynchus mendicus**, control 1617
- Conotrachelus crataegi**  
ecology, interspecific competition 7813  
Rosaceae, Michigan 7813
- Conotrachelus humeropictus**  
biology, life history 10911  
fungi, interactions 10911  
*Theobroma*, Rondonia 10911
- Conotrachelus nenuphar**  
apples  
Massachusetts 9832  
Quebec 4549  
biology, behaviour 6654  
control 4549  
chemical control 9832  
ecology 4549  
monitoring, traps 5549, 6654  
*Prunus*, Georgia 6654
- Conservation**, Lepidoptera 9354
- Conservula cinisigna**, control, *Pteridium aquilinum* 11031
- Contarinia**  
control, chemical control 3665  
*Jasminum sambac*, Tamil Nadu 3665
- Contarinia amenti**  
*Quercus*  
damage 7917  
Romania 7917
- Contarinia citri**  
*Citrus*  
damage 9889  
Hunan 9889
- Contarinia fagi**  
*Fagus sylvatica* 5809  
*Schueziella fagicola*, interactions 5809
- Contarinia leniis**  
economic thresholds 1481  
lentils, Czech Republic 1481
- Contarinia pisi**  
ecology, population dynamics 9759  
monitoring, traps 9759  
parasitoids 9759  
peas, Switzerland 9759
- Contarinia pyrivora**  
pears  
damage 1542  
Poland 1542
- Contarinia quercina**  
*Quercus robur*  
galls 5809  
Germany 5809  
*Schueziella quercicola*, interactions 5809
- Contarinia sorghicola** (see *Stenodiplosis sorghicola*)  
biology  
behaviour 560  
dispersal 1448  
control, integrated control 7686  
ecology, population dynamics 1466  
forecasting 4433  
parasitoids 1466, 5428  
sorghum  
Andhra Pradesh 1445, 5427, 5431, 7688  
India 5428, 7686  
Karnataka 3450  
Queensland 562  
resistance 1445, 3450, 5427-5428, 5431, 7688  
Texas 560, 4431, 4433  
varietal susceptibility 562  
Venezuela 1448  
*Sorghum halepense*, Venezuela 1466  
taxonomy, to *Stenodiplosis* 8045
- Contarinia tritici**  
biology 2412  
ecology, population dynamics 6444  
fungicides, effects 2324  
morphology 7671  
wheat  
Czech Republic 6440, 6444  
Germany 2324  
Italy 2412  
Poland 3428  
resistance 3428, 6440  
Shaanxi 7671
- Contortylenchus genitalicola**, hosts, *Monochamus alternatus* 5248
- Controlled atmosphere storage**, control, insect pests, horticultural crops, commodities 4799
- Controlled atmospheres**  
control  
arthropod pests, cereals, commodities 850  
Tephritidae, *Averrhoa carambola*, commodities 10030  
*Thrips obscuratus* 6266  
Tortricidae 9012  
effects  
Coleoptera 8125  
*Tetranychus urticae* 10463
- Controlled burning**, effects, insects, forests 7912
- Conura caescens**, hosts, *Cotesia plutellae* 619
- Conura meteori**  
*Bromus inermis*, habitats, Indiana 2475  
hosts, *Aleiodes stigmator* 2475
- Conura side**  
*Cirsium arvense*, habitats, Maryland 6854  
hosts, *Cassida rubiginosa* 6854
- Conura torvina**  
hosts, *Cassida rubiginosa* 7360  
Virginia 7360
- Convolvulus**, control, biological control 11035
- Convolvulus arvensis**, *Cassida indicola*, India 948
- Convolvulus microphyllus**, *Cassida indicola*, India 948
- (+)- $\alpha$ -Copaene, attractants, *Ceratitis capitata* 4378
- Copidosoma**  
hosts, *Neoleucinodes elegantalis* 3565  
taxonomy 1849
- Copidosoma bakeri**  
hosts, *Euxoa auxiliaris* 11923  
rape, fields, Alberta 11923
- Copidosoma floridanum**  
biology, behaviour 8270  
hosts, *Trichoplusia ni* 8112, 8270  
physiology, development 8112
- Copidosoma koehleri**  
control, *Phthorimaea operculella*, potatoes 5260  
hosts, *Phthorimaea operculella* 1316  
insecticides, toxicity 1316  
rearing techniques 5260
- Copidosoma truncatellum**  
cotton, fields, Florida 4667  
hosts, Noctuidae 4667
- Copitarsia consueti**  
biology  
behaviour 3960  
reproduction 5041  
morphology, cuticle 11146
- Copper**  
effects  
*Aphis fabae* 11771  
*Dolerus* 10501  
*Galleria mellonella* 4227  
*Lymantria dispar* 11563  
invertebrates 1307  
pollutants, *Ariantra arbustorum* 5202
- Copper chrome arsenate**, control, *Zootermopsis angusticollis*, wood 3235
- Copper fungicides**, acaricides, interactions 4589
- Copper naphthenate**, control, *Coptotermes formosanus*, wood 5731
- Copper oxchloride**, effects, *Empoasca vitis* 11885
- Copper sulfate**  
effects, *Ariophanta bajadera* 6837  
mixtures, effects, *Ariophanta bajadera* 6837  
nontarget effects, *Drosophila melanogaster* 1348
- Copper zinc arsenate**, control, *Zootermopsis angusticollis*, wood 3235
- Copris**  
ecology, competition 4024  
morphology 1822  
South Africa 4024  
taxonomy 1822
- Coptis chinensis**, extracts, antifeedants, Lepidoptera 11700
- Coptodisca**  
ecology, environmental factors 11995  
*Salix lasiolepis*, Arizona 11995
- Coptotermes**  
forest trees, Amazonia 5628  
South Asia 11460
- Coptotermes acinaciformis**  
biology, migration 6206  
Northern Territory 6206  
*Pinus radiata*, wood 11045  
polychlorinated biphenyls, residues 1334  
wood preservatives, effects 11045
- Coptotermes bornensis**  
control, chemical control 12065  
wood, Zhejiang 12065
- Coptotermes ceylonicus**, biochemistry, enzymes 9164
- Coptotermes curvignathus**  
control, chemical control 12065  
wood, Zhejiang 12065
- Coptotermes formosanus**  
*Azadirachta indica*  
bark, effects 11003  
wood, effects 11003  
biology  
behaviour 6205  
sex ratio 4128  
borates, effects 838  
control, chemical control 3698, 5731, 6893, 8023, 11039  
distribution, California 6893  
ecology, population dynamics 3093



*Coptotermes formosanus* cont.  
effects 11463  
Florida 6968  
Formicidae, interactions 6205  
fumigants, toxicity 9588  
insecticides, pathogenicity 9474  
Louisiana 3093  
pathogens 11526  
pesticides, effects 2257  
*Pinus*, wood 5731, 11039  
*Pinus densiflora*, wood 8996  
protozoa, symbiosis 6203  
Protozoa, symbiosis 8996  
*Pseudotsuga menziesii*, wood, Hawaii  
838, 8023  
taxonomy 6968  
wood  
California 6893  
resistance 1764

*Coptotermes heimi*  
biology, development 6208  
*Eucalyptus tereticornis*, Uttar Pradesh  
2661

*Coptotermes lacteus*  
Australian Capital Territory 5139  
biology 5139  
taxonomy 3756

*Coraeibini*, taxonomy 11129

*Coranus nodulosus*  
cotton, fields, Tamil Nadu 10915  
taxonomy, new species 10915

*Coras montanus*  
biology, behaviour 5154  
fields, habitats, North America 5154  
parasitoids 5154

*Corchorus capsularis* (see Jute)

*Corchorus olitorius* (see Jute)

*Coryca cephalonica*  
biology  
environmental factors 2003  
reproduction 5737  
carbon dioxide, effects 5757  
control, integrated control 9007  
diets 1325, 11532  
insecticides  
effects 1325, 11598  
toxicity 10545  
maize, commodities 5737  
natural enemies 1991  
parasitoids 218, 312, 2222, 9145, 11441,  
11927  
pathogens 11532  
physiology, metabolism 3820  
predators 3214, 6114, 8374  
radiation, effects 11048  
wheat, commodities, Pakistan 9007

*Cordia dichotoma*, *Bartioscapus cordiae*,  
Indian Punjab 2731

*Cordia myxa*, *Bartioscapus cordiae*, Indian  
Punjab 2731

*Cordia obliqua* (see *C. dichotoma*)

*Cordillacris crenulata*  
control, chemical control 5261  
grasslands, Arizona 5261

*Cordillacris occipitalis*  
control  
chemical control 5261  
trapping 5446  
fatty acids, attractants 5446  
grasslands, Arizona 5261  
rangelands, Wyoming 5446

*Cordyceps*, hosts, Lepidoptera 7866

*Cordyceps khaoyaiensis*, hosts, Lepidoptera  
3273

*Cordyceps militaris*  
hosts  
Lepidoptera 7866  
*Quadricalcarifera punctatella* 9478

*Cordyceps nutans*  
hosts  
Hemiptera 10415  
*Tibraca limbativentris* 8663

*Cordyceps oncoperae*, hosts, *Oncopera*  
4140, 5445

*Cordyceps pseudomilitaris*, hosts,  
Lepidoptera 3273

*Cordylochernes scorpoides*, genetics, alleles  
4993

*Coregonus autumnalis migratorius*, insecti-  
cides, residues 4322

*Coregonus hoyi*, organochlorine compounds,  
residues 4307

**Coreidae**  
Asia 9052  
cowpeas  
Benin 6549  
damage 6549  
Nicaragua 3109  
taxonomy 9052

*Coriandrum sativum*  
pest control 3678  
*Systole coriandri*  
Chile 11006  
damage 11006

*Coridius viduatus*  
biology 5386  
control 5386  
crops, Middle East 5386

**Corinidae**, checklists, Uruguay 8321

**Corizomorphini**, phylogeny 11142

**Corn** (see Maize)

**Corn flour**, *Tribolium confusum* 12077

**Corn stunt spiroplasma**, vectors, *Daibulus*  
*maidis* 9698

**Cornitermes**  
ecology, population dynamics 3476  
rice, Goias 3476

**Cornitermes cumulans**  
*Brachiaria decumbens*, Mato Grosso do  
Sul 1463  
control 4457  
chemical control 1463  
pastures, Mato Grosso do Sul 4457  
physiology, cuticle 7015  
Sao Paulo 7015

**Cornus florida**  
insect pests  
damage 2655  
North Carolina 2655  
Sesiidae, Maryland 2675

**Coronilla varia**  
*Lygus lineolaris*, Quebec 4110  
*Polyommatus icarus* 4970

**Corsica**, *Pieris* 7147

**Corthylus punctatissimus**  
*Acer*, Michigan 3651  
biology, behaviour 3651

**Corvus macrorhynchos**, prey, *Holotrichia*  
4029

**Corvus splendens**, prey, *Holotrichia* 4029

**Corylaceae**, arthropods, UK 2397

**Corylobium avellanae**  
biology 11917  
control, chemical control 11917  
hazelnuts  
America 9907  
damage 11917  
Europe 9907  
Poland 11917

**Corylophidae**  
biology, feeding 11715  
cereals, fields, Denmark 11715

**Corylus**, *Salebriopsis albicilla*, Spain 4685

**Corylus avellana** (see Hazelnuts)

**Corynebacterium**, hosts, *Atherigona soccata*  
2440

**Coryneum cardinale**, vectors, *Phloeosinus*  
12031

**Corynoptera dumosa**  
*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810

**Corynoptera licina**  
*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810

**Coryphiini**  
distribution, Palaearctic Region 909  
taxonomy 909

**Corythucha**, secretions, effects, microorga-  
nisms 11192

**Cosmarium**, insecticides, effects 10614

**Cosmisoma**, taxonomy 3771

**Cosmisoma militaris**, taxonomy, new species  
3771

**Cosmopolites sordidus**  
bananas 4583  
Costa Rica 8780-8781  
damage 662  
Kenya 662, 5550, 7841  
resistance 9881  
Venezuela 1564  
Zaire 661

**Cosmopolites sordidus** cont.  
control  
biological control 2223, 8781  
plant extracts 661  
reviews 4583  
trapping 7841  
food plants, Cameroon 6676  
Mexico 2223  
pathogens 7487, 8780  
pheromones 10167  
predators 1564, 5550

**Cosmopterigidae**, distribution, Korea  
Republic 11379

**Cosmos**, Mexico 6840

**Cossus cadambae**  
*Tectona*, Kerala 2672  
*Tectona grandis*, Karnataka 2678

**Cossus cossus**  
biology 7808  
control 7808  
pome fruits, Italy 7808

**Costa Rica**  
*Acromyrmex* 6064  
Aleyrodidae 5030  
*Anastrepha striata* 1250  
*Andira inermis*, *Cleogonus rubetra* 11912  
*Apocharips hansonii* 9071  
bananas  
*Cosmopolites sordidus* 8780  
Curculionidae 8781  
*Canopus* 1065  
*Citrus*, *Toxoptera citricidus* 4591  
cocoa, pollinators 4646  
*Cryptophion* 8082  
food plants, *Bemisia tabaci* 629  
forests  
Formicidae 3046, 8858  
insects 4677  
*Solenopsis geminata* 3191  
Sphingidae 11297  
fruits, Tephritidae 5548  
*Heliconius cydno* 3795  
*Hyptis urticoides*, *Glyphipteryx* 10022  
insecticides, legislation 422  
Lepidoptera 2024, 4051  
*Macadamia*, *Ecdytolopha aurantianum*  
679  
melons, Aphidoidea 10891  
*Myzus persicae*, parasitoids 602  
*Oiketicus kirbyi* 7058  
oil palms  
*Opsiphanes cassina* 683  
*Rhynchophorus palmarum* 682  
*Passiflora vitifolia*, *Heliconius cydno*  
9074  
*Perilissus nudus* 4840  
plantations, Formicidae 3608  
potatoes  
Gelechiidae 9777  
insect pests 601  
*Liriomyza huidobrensis* 7749  
rain forests  
Lepidoptera 8852  
*Pheidole* 5137  
Rhopalocera 3913  
*Rinorea deflexiflora*, *Atta cephalotes*  
7925  
*Solenopsis geminata*, natural enemies  
3191  
stored products, insect pests 3704  
*Surasmiris longirostris* 8066  
tomatoes, *Bemisia tabaci* 626-628, 630  
tropical forests, Formicidae 289  
Vespididae 6197

**Costelytra zealandica**  
biochemistry, enzymes 9506  
control  
biological control 6511, 6514  
cultural control 11762  
diets 1468  
*Lolium*, New Zealand 6514  
pastures  
damage 2478  
New Zealand 2478, 6511, 11762  
pathogens 2167, 7471, 9506  
*Trifolium repens*, New Zealand 1468

**Cote d'Ivoire**  
cassava, *Bemisia tabaci* 11796  
coconuts, *Rhynchophorus phoenicis* 9916  
coffee, *Hypothenemus hampei* 9939  
cotton, pest control 3610



**Cote d'Ivoire cont.**

- Ficus*, Agaonidae 8080  
 food plants, *Helicoverpa armigera* 10682  
 maize, commodities, pest control 2788  
*Megaponera foetens* 3930  
 oil palms  
   *Pteroteinon laufella* 1598  
   *Rhynchophorus phoenicis* 4622, 7627  
*Oryctes monoceros* 4371  
*Paltothyreus tarsatus* 5128  
*Rhynchophorus phoenicis* 4376  
 rice, pest control 7694  
 tropical forests, insects 5624

**Cotesia congregata**

- biochemistry, peptides 9153  
 biology  
   behaviour 4641  
   development 2884  
 crops, habitats, Maryland 4641  
 hosts  
   *Manduca quinquemaculata* 702  
   *Manduca sexta* 2884, 4641, 4930,  
   4945, 9153, 11220

**Cotesia flavipes**

- control  
   *Diatraea saccharalis*, sugarcane 1610  
   *Sesamia griseacens*, sugarcane 4637  
 hosts  
   *Chilo partellus* 2129  
   *Diatraea saccharalis* 3938  
 pathogens 2129  
 sugarcane, plantations, Papua New  
   Guinea 4637

**Cotesia glomerata**

- attractants 11810  
 biology  
   behaviour 208, 313, 3949, 3974,  
   6582, 10266, 11321  
   host range 9423  
 cabbages, fields, Denmark 620  
*Cassia alata*, habitats, Tamil Nadu 4762  
 cold resistance 8392  
 hosts  
   *Catopsilia pomona* form *crocale* 4762  
   *Pieris* 313, 3974, 9423  
   *Pieris brassicae* 620, 3949, 6582,  
   8392, 10266, 11321, 11810  
   *Pieris rapae* 208  
 parasitoids 8392  
 plant extracts, attractants 5490  
 UK 8392

**Cotesia kariyai** (see *Apanteles kariyai*)**Cotesia kazak**, hosts, *Helicoverpa armigera* 9429**Cotesia marginiventris**

- biology, behaviour 4475  
 cotton, fields, Florida 4667  
 hosts

- Hypena scabra* 3493  
 Noctuidae 4667, 6188  
*Spodoptera frugiperda* 4475, 6462  
 parasitoids 6188  
 soyabeans, fields, Ohio 3493

**Cotesia meghrangini**

- hosts, *Exelastis atomosa* 5820  
 pigeon peas, fields, Maharashtra 5820  
 taxonomy, new species 5820

**Cotesia plutellae**

- biology 619  
 cabbages, habitats, Taiwan 2525  
 growth regulators, effects 7623  
 hosts  
   *Ocnogyna baetica* 330  
   *Plutella xylostella* 619, 2525, 4104  
 insecticides, effects 2525, 4104  
 Malaysia 4104  
 parasitoids 619  
 Spain 330

**Cotesia rubecula**

- biochemistry, proteins 324  
 biology  
   behaviour 313, 3945, 3974, 6043,  
   6582  
   host range 9423  
 hosts  
   *Pieris* 313, 3974, 9423  
   *Pieris brassicae* 3949  
   *Pieris rapae* 324, 3945, 6043, 6582  
 morphology, glands 11155  
 Polydnaviridae, interactions 324

**Cotesia ruficrus**, hosts, *Chrysodeixis agnata* 9426**Cotesia sesamiae**

- hosts, *Chilo partellus* 5425  
 maize, fields, Kenya 5425  
 parasitoids 5425

**Cotesia telengai**

- biology, reproduction 315  
 hosts, Noctuidae 315

**Cotinis**, taxonomy 11086**Cotinis mutabilis**, taxonomy 11086**Cotinis nitida**, pathogens 2186**Cotton** (*Gossypium* spp.)

- Alabama argillacea*, Parana 3621  
 Aleoirdidae, Israel 9956  
*Amrasca biguttula*, India 3716  
*Amrasca devastans*  
   Bangladesh 1635, 5611, 8833  
   Delhi 7896  
*Anomis flava*, Hunan 8832  
*Anthonomus grandis*  
   Brazil 6741  
   Ceara 4654  
   North America 9958  
   North Carolina 2631  
   Paraguay 2624  
   Paraiba 2639, 7888  
   resistance 717  
   Rio Grande do Norte 717  
   Sao Paulo 1628, 5613-5614, 8831,  
   9950  
   Texas 5617, 6740, 8844  
   USA 2642  
   yield losses 2631

**Aphididae** 4510**Aphidoidea**, resistance 8830**Aphis gossypii** 2401, 8379

- Arkansas 11964, 11967  
 California 1636  
 Cameroon 7889  
 economic thresholds 2640  
 Henan 10914  
 Jiangsu 715, 1625  
 Maharashtra 3613  
 Mississippi 707, 9960  
 resistance 9960  
 Shandong 2640  
 Texas 9959

**arthropod pests**

- control, integrated control 6734  
 Maharashtra 8838

**arthropods**, Egypt 1633**Bacillus thuringiensis**, genetic engineer-**ing** 10683**Bemisia argentifolii**

- Arizona 10913  
 California 6732, 10794  
 resistance 10913

**Bemisia tabaci** 1632, 4666, 6739, 10922

- California 4659, 8841  
 Costa Rica 629  
 damage 5612  
 Delhi 7896  
 Ethiopia 4658  
 Iran 3615  
 Israel 4218, 4263, 5612, 5616  
 Karnataka 4651  
 Maharashtra 11972  
 resistance 2629, 11972

**beneficial insects**

- pollination 1198  
 Sudan 1198

**books** 8048**Brevicoryne brassicae**, interactions 4510**Bucculatrix loxoptila**, Tamil Nadu 3611**Bucculatrix thurberella**, Arizona 4663**Cheletomimus zamia**, Pakistan 8059**Chondracris rosea**, Anhui 3295**Chrysodeixis includens** 2192**Mississippi** 588**commodities**

- Anthonomus grandis* 10047  
 insect pests, Sao Paulo 7886  
*Creontiades*, Australia 11362  
*Cryptophlebia leucotreta*, Togo 8619  
*Dysdercus cardinalis*, Kenya 6408  
*Earias vittella* 11965  
 Gujarat 5615

**extracts****effects***Helicoverpa armigera* 8501, 9955**Cotton cont.****extracts cont.****effects cont.***Heliothis virescens* 9957**fields***Allothrombium pulvinum*, Jiangsu**1625***Apanteles anomidis*, Hunan 8832*Aphelinidae*, Israel 5612*Araneae*, Texas 4669*arthropods*, Egypt 1633*beneficial arthropods*, Jiangsu 715*beneficial insects*, Kenya 6427*Bracon mellitor*, Sao Paulo 1628*Catolaccus grandis*, Texas 6740*Coranus nodulosus*, Tamil Nadu**10915***Hemiptera*, Arizona 706, 712*Hymenoptera*, Florida 4667*insects*, California 1636*natural enemies*, Bangladesh 5611*Orius similis*, Hubei 7887*parasitoids* 11972*Orissa* 4660*predatory arthropods**Bangladesh* 9947*Sao Paulo* 5614*predatory insects**Beijing* 10912*Kenya* 1626, 6050*Texas* 4670*Geocoris*, Sao Paulo 6737**habitats***beneficial insects*, India 7892*insects*, Delhi 4101*Pheidole olivierai*, Sao Paulo 7897*Stylogeocoris maculatus*, Queensland**3752***Helicoverpa armigera* 179, 7638, 8501,**9429***Andhra Pradesh* 6731*Beijing* 10912*China* 5601, 8630, 10711, 10924,**11962***Cote d'Ivoire* 10682*damage* 8630*economic thresholds* 6731*Hebei* 412, 9961*India* 7892*Karnataka* 4652*Kenya* 1626, 6050, 6427*Maharashtra* 8835*New South Wales* 6733*Orissa* 4660*resistance* 2628, 8835, 10925*South Africa* 10536*Tamil Nadu* 5609, 10557*Thailand* 11970*varietal susceptibility* 710*Helicoverpa punctigera*, Australia 6418*Helicoverpa zea* 7893*resistance* 4665*Texas* 4665, 4670*Heliothis* 10265*Heliothis virescens* 4657, 7394, 8842,**11968***Colombia* 2627*Mississippi* 2641, 9952, 9957*resistance* 2633, 2641*Texas* 716*USA* 11966*Hemiptera*, India 714*Homoptera**Bangladesh* 3614*resistance* 3614*USA* 9026*insect pests* 8840*Arizona* 706, 712*Brazil* 1629*reviews* 1629*California* 4664*control* 2812*cultural control* 9951*reviews* 9532*damage* 8829, 10926*Delhi* 1631*economic thresholds* 2636*India* 7894*Karnataka* 4650*Louisiana* 2625*Maharashtra* 8837



- Cotton cont.**  
insect pests cont.  
Mississippi 4662  
Nicaragua 398  
resistance 706, 2630  
Sudan 4668  
yield losses 8837  
Zambia 2636  
insecticides  
effects 2311, 3617, 9950  
mixtures, effects 8839  
persistence 2192  
residues 9953  
integrated pest management  
Australia 5603  
reviews 5605  
Brazil 5603  
reviews 5606  
California 9964  
reviews 5603  
USA 5603  
reviews 5604  
USSR 5603  
reviews 5607  
Zambia 2636  
interactions, parasitoids 11972  
Lepidoptera  
China 11963  
India 9963  
Indian Punjab 713, 1634  
Maharashtra 8834, 8836  
Pakistan 5610  
resistance 2632, 2634, 5268, 9963  
Sao Paulo 1630, 4655  
Tamil Nadu 3612  
yield losses 713  
*Lygus hesperus*, California 4661  
*Lygus lineolaris* 2638  
Arkansas 709  
resistance 709  
*Lygus pratensis*, Xinjiang 7890  
methyl bromide, fumigation 704  
Miridae, Africa 10068  
Mississippi 4256  
*Mouralia tinctorides* 705  
*Mussidia nigriverella*  
damage 8619  
Togo 8619  
*Myzus persicae*, New South Wales 5608  
Noctuidae 10759  
economic thresholds 10917  
Florida 4667  
Maharashtra 11971  
Mississippi 2637  
resistance 11971  
Shandong 10917  
South Carolina 11969  
yield losses 10917  
odours  
effects  
*Helicoverpa zea* 7893  
*Trichoplusia ni* 7891  
*Ostrinia furnacalis*  
China 10919  
economic thresholds 10919  
resistance 9954  
yield losses 10919  
*Ostrinia nubilalis*, Jiangsu 3618  
*Pectinophora gossypiella* 8048  
Arizona 3620  
California 708, 4671-4672, 8843  
Haryana 6738  
Hubei 5618, 7887  
Indian Punjab 3622  
Pakistan 3619  
resistance 5618, 6738, 9962  
Sao Paulo 1627, 4656  
pest control 3616, 12098  
Cameroon 2635, 6734  
Cote d'Ivoire 3610  
Maharashtra 2623  
reports 860  
Tanzania 10926  
USA 3623  
pests  
monitoring, traps 3623  
resistance 3623  
*Poecillocerus pictus* 2403  
*Spodoptera exigua*  
California 6407  
Louisiana 6736
- Cotton cont.**  
*Spodoptera exigua* cont.  
outbreaks 6736  
USA 6735  
*Spodoptera littoralis* 2194  
Egypt 2626, 5602  
*Spodoptera litura* 3419, 7895  
Tetranychidae  
China 9949  
resistance 9949  
*Tetranychus*, Ceara 4653  
*Tetranychus cinnabarinus*  
Henan 10918  
outbreaks 10918  
*Tetranychus pacificus* 711  
*Tetranychus urticae*  
New South Wales 9948, 10923  
resistance 8845, 10921  
*Trialeurodes vaporariorum* 10916  
damage 11823  
Uzbekistan 11823  
*Trichoplusia ni*, California 10920  
**Cottonseed oil**  
control, arthropod pests, cotton 8838  
effects, *Callosobruchus chinensis* 1765  
with monocrotophos, control, arthropod pests, cotton 8838  
**Coturnix** *coturnix japonicus*, prey, *Coccinella septempunctata* 4100  
**Coturpus**, taxonomy, new genus 4853  
**Coturpus arcuatus**  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853  
**Coumaphos**  
control  
*Varroa jacobsoni* 8509  
*Apis mellifera* 4123  
residues  
determination 10605  
honey 9601, 10605  
toxicity, *Artemia salina* 4289  
**Coumarins**  
effects  
insect pests 4229  
*Manduca sexta* 4230  
*Spodoptera littoralis* 5382  
synthesis 5291  
toxicity, *Cylas formicarius* 5291  
**Counter** (see *Terbufos*)  
**Courgettes** (see *Marrows*)  
**Cover crops**, effects, *Diabrotica undecimpunctata*, maize 8651  
**Cowpeas** (*Vigna unguiculata*)  
Aphididae 10777  
*Aphis craccivora* 7747, 8701  
India 8705  
Nigeria 7746  
resistance 7746  
*Bemisia tabaci*, Pakistan 2498  
*Bradysia*, damage 8670  
*Bruchidius atrolineatus*, Niger 228  
*Callosobruchus maculatus*, Turkey 1486  
*Cathartus quadricollis* 836  
*Ceratomya tingomarianus*, Acre 1409  
*Chalcodermus aeneus*, Georgia 5469  
*Chalcodermus bimaculatus*, Brazil 7745  
commodities  
*Acanthoscelides obtectus* 12066  
Bruchidae 12086  
*Bruchidius atrolineatus*, varietal susceptibility 12068  
*Callosobruchus* 8703, 11044  
*Callosobruchus chinensis* 6894  
*Callosobruchus maculatus* 834, 6895, 7219, 8952, 8999, 9003, 10045  
resistance 2776, 4810, 6897  
varietal susceptibility 10033  
*Lasioderma serricorne* 9005  
*Empoasca kraemerii*, Pernambuco 1485  
fields  
beneficial arthropods, Kenya 6417  
Coccinellidae, Nigeria 7746  
*Fundella pellucens*, Jamaica 2497  
*Helicoverpa armigera* 9767  
insect pests  
Arkansas 8702  
Benin 6547, 6549  
Chad 8704  
control, chemical control 3501  
damage 6549  
Egypt 9771
- Cowpeas cont.**  
insect pests cont.  
Nigeria 595, 1488, 11785  
Pernambuco 8643  
intercropping  
cereals, pest control 5417  
integrated pest management 1418  
maize, effects, predatory arthropods 6417  
sorghum, effects, predatory arthropods 1417  
Lepidoptera  
Kenya 1418  
resistance 1418  
Sri Lanka 1489  
*Maruca vitrata*  
Nigeria 596, 1487, 10781, 11788  
resistance 1487, 11787-11788  
*Megalurothrips sjostedti*, Kenya 6417  
*Nezara viridula*, South Carolina 4107  
odours, effects, *Eupelmus vuillei* 4482  
pest control, West Africa 9032  
pesticides, residues 578  
*Spodoptera frugiperda* 2272, 6461  
Thripidae  
resistance 587  
Rwanda 587  
*Trialeurodes vaporariorum* 8261  
Turkey 1470  
**Crabro**  
prey, Diptera 8373  
USA 8373  
**Crabs**, pesticides, residues 8558  
**Crambus laqueatellus**  
biochemistry, chemical composition 339  
insects as food 339  
Michigan 339  
**Crambus perlellus**  
Japan 9063  
parasitoids 9063  
**Cranberries** (see *Vaccinium*)  
**Crataegus**  
*Cacopsylla idiocrataegi*, China 11861  
Coleoptera, Germany 6749  
habitats  
Hymenoptera, Washington 2746  
natural enemies, Germany 6813  
*Paropsides soriculata*, Jilin 10953  
*Psylla*, Germany 6813  
*Spilonota pyrusicola*, China 10856  
**Crataegus douglasii**  
habitats, *Biosteres melleus*, Washington 2746  
*Rhagoletis pomonella*, Washington 2746  
**Crataegus laevigata**, *Iphiclydes podalirius*, Italy 1545  
**Crataegus mollis**  
extracts, effects, *Rhagoletis pomonella* 5655  
insect pests, Michigan 7813  
*Rhagoletis pomonella*, Massachusetts 4556, 5655, 7817  
**Crataegus monogyna**  
habitats, *Opus downesi*, Washington 2746  
*Rhagoletis pomonella*, Washington 2746  
**Crataegus pentagyna**  
*Carposina sasakii*  
China 8768  
damage 8768  
**Cratocnema**, hosts, *Prophantis smaragdina* 3604  
**Cratosomus bombina**, Annonaceae, Amazonas 8794  
**Cretonotos gangis**  
biology, development 3456  
food plants 3456  
**Cretonotos transiens**  
biochemistry  
chemical composition 5939  
pheromones 1889  
pyrrolizidine alkaloids, metabolism 4928  
**Crematogaster**  
coffee, plantations, Minas Gerais 701  
ecology 670  
spatial distribution 701  
*Macaranga hosei*  
habitats, Malaysia 814  
Malaysia 814  
mangoes, Western Australia 670  
plant extracts, repellents 6399



- Crematogaster auberti**, biochemistry, secretions 11190
- Crematogaster brevispinosa**, mangrove forests, Panama 213
- Crematogaster clariventris**  
cocoa, plantations, Ghana 4645  
interactions, Hemiptera 4645
- Crematogaster nigricaps prelli**  
*Acacia drepanolobium*, Tanzania 4463  
*Acaciococcus hockingi*, interactions 4463
- Crematogaster punctulata**  
ecology, communities 4699  
Texas 4699
- Cremifania nigrocellulata**  
distribution, British Columbia 4745  
prey, *Dreyfusia piceae* 4745
- Crenetermes albotarsalis**  
ecology, soil 8856  
forests, Congo 8856
- Creontiades**  
ectoparasites 11362  
field crops, Australia 11362
- Creontiades pallidus**  
biology, development 4434  
sorghum, Mali 4434
- Creophilus**, biochemistry, secretions 4936
- Creosote**  
effects, aquatic environment 8581  
toxicity, *Nasutitermes rippertii* 2779
- Cresol**, mixtures, attractants, *Trichoplusia ni* 7891
- Cribrolecanium andersoni**  
biology, life cycle 8784  
mandarins, South Africa 8784
- Cricula trifenestrata**  
control, chemical control 3584  
groundnuts, Maharashtra 3584
- Crioceris asperagi**  
asparagus, USA 10814  
plant pathogens, transmission 10814
- Crioceris duodecimpunctata**  
asparagus, USA 10814  
plant pathogens, transmission 10814
- Crioceris livida** (see *Lilioceris livida*)
- Croatia**  
*Bacillus atticus* 5010  
man, insecticide residues 7561  
marine areas, insecticide residues 4300  
potatoes, Aphididae 3509  
*Quercus robur*  
arthropod pests 7915  
*Curculio* 8873  
sunflowers, pest control 1594  
*Torymus* 1826
- Crocidolomia binotalis**  
biology, life cycle 1503  
Brassicaceae, Mauritius 8960  
broccoli 1503  
cabbages 4254  
Maharashtra 11815  
control, chemical control 11815  
growth regulators, effects 4254  
plant extracts, effects 8960
- Croesia curvalana**  
biology, behaviour 2566  
monitoring, traps 2566  
*Vaccinium*, Nova Scotia 2566
- Cronartium comandrae**, *Thrips aurulentus* 919
- Crooknecks** (see *Cucurbita maxima*; *Cucurbita pepo*)
- Crop protection** (see Plant protection)
- Cropping systems**  
effects  
*Bemisia tabaci* 6595  
Carabidae 3427  
*Porphyrophora tritici*, barley 11726  
lupins, arthropod pests 11757  
rape, arthropod pests 11757
- Crops**  
Acari, Greece 8623  
Acrididae, Russia 11406  
Aphididae, Portugal 6419  
arthropod pests  
Australia 11706  
Japan 5389, 5813  
Romania 533  
sampling 6917  
commodities, Coleoptera 9015  
*Empoasca*, India 3716
- Crops cont.**  
fields  
Araneae, USA 4393  
Carabidae, New Zealand 9445  
Diptera, Germany 5397  
habitats  
beneficial insects, Italy 11833  
*Cotesia congregata*, Maryland 4641  
parasitoids, Hokkaido 6588  
predatory insects  
Bihar 7727  
Japan 5813  
Scarabaeidae, South Africa 3087  
Heterocera, New South Wales 229  
insect pests  
Middle East 5386  
reports 2792  
resistance 1288, 5267, 5269  
Tamil Nadu 11553  
UK 2792  
USA 4393  
Uttar Pradesh 11709  
integrated pest management, USA 6280, 6413-6414  
Isoptera, damage 7368  
*Melolontha melolontha*, Germany 8620  
pest control  
books 6933, 8039  
conferences 3723, 8031  
West Africa 9032  
pests  
damage, information systems, Germany 11393  
Taiwan, reports 2808  
predatory arthropods, Poland 536  
Scarabaeidae, Maharashtra 1408  
Thrips, damage 1407
- Crotalaria juncea** (see Sunn hemp)
- Crown gall** (see *Agrobacterium tumefaciens*)
- Crozot Archipelago**, insects 8301
- Cruciferae** (see Brassicaceae)
- Crustacea**  
biochemistry, proteins 11228  
ecology, population dynamics 7946  
insecticides  
effects 475, 2296  
toxicity 9625-9626  
pesticides, residues 5329  
*Pinus koraiensis*, Korea Republic 7946
- Cryphalophilus ater**, taxonomy, to *Psilopodius* 1810
- Cryphalus**  
Pacific Islands 1810  
taxonomy 1810
- Cryptoblabes gnidiella**  
attractants 6669  
grapes  
Israel 6669  
Spain 6996  
insecticides, pathogenicity 8424  
*Lobesia botrana*, differentiation 6996  
monitoring, traps 6669
- Cryptocephalus fulguratus**  
biology, behaviour 1669  
*Quercus macrocarpa*, wood, Kansas 1669
- Cryptochaetum iceryae**, growth regulators, toxicity 11607
- Cryptococcus fagisuga**  
*Fagus grandifolia*, North America 2667  
*Fagus sylvatica*  
damage 1672  
Germany 1672  
*Nectria*, interactions 2667
- Cryptogenius fryi**, taxonomy 9101
- Cryptogenius miersianus**, taxonomy 9101
- Cryptolaemus montrouzieri**  
biology, behaviour 2134, 11428  
control, *Planococcus citri*, evaluation 5553  
Fabaceae, Israel 1723  
fruits, habitats, New Zealand 640  
prey  
Hemiptera 1723  
*Planococcus citri* 5553, 11428  
Pseudococcidae 2134  
*Pseudococcus* 640
- Cryptolestes**  
barley, commodities, Montana 5741  
ecology, population dynamics 6871  
flour mills, Italy 6878
- Cryptolestes cont.**  
pheromones 7317  
synthesis 10674  
predators 5741  
wheat, commodities, Kansas 6871
- Cryptolestes ferrugineus**  
biology, environmental factors 837  
cereal grains, South Carolina 4809  
cereals, commodities 850  
cold resistance 8997  
control  
chemical control 4802, 9013  
controlled atmospheres 850  
integrated control 9007  
ecology, environmental factors 9013  
insecticides, resistance 5753  
microorganisms, effects 8997  
monitoring 4808  
UK 5753  
wheat  
commodities  
Kansas 4808  
Manitoba 9013  
Pakistan 9007  
UK 4802
- Cryptolestes halevayae**  
*Pinus halepensis*, Mediterranean region 2691  
prey, *Matsucoccus josephi* 2691  
taxonomy, new species 2691
- Cryptolestes pusillus**  
biology, environmental factors 837  
cereal grains, South Carolina 4809  
physiology, enzymes 9163  
plant extracts, effects 9163  
radiation, effects 9262
- Cryptomeria japonica**  
*Aspidiotus cryptomeriae* 10960  
*Callidiellum rufipenne*, Japan 6804  
Cerambycidae, Japan 6801  
habitats, parasitoids, Japan 6804  
*Polistes mandarinus*, Honshu 9980  
*Semanotus japonicus*, Japan 2714  
*Xyleborus validus*, Honshu 7964
- Cryptomyzus alboapicalis**  
biology, reproduction 1555  
*Lamium album*, Netherlands 1555
- Cryptomyzus galeopsidis**  
biology  
behaviour 3942, 5535-5536  
reproduction 1555  
black currants 5535  
pheromones 5536  
red currants 3942, 5535-5536  
Netherlands 1555
- Cryptomyzus maudamanti**  
biology, behaviour 3942, 5535-5536  
pheromones 5536  
red currants 3942, 5535-5536
- Cryptomyzus ribis**  
biology, behaviour 3942, 5535  
red currants 3942, 5535
- Cryptomyzus ulmeri**  
biology, reproduction 1555  
*Lamium maculatum*, Netherlands 1555
- Cryptophagidae**  
biology, feeding 11715  
cereals, fields, Denmark 11715  
wheat, UK 4409
- Cryptophagus**, taxonomy 3754, 9081
- Cryptophagus cellaris**  
cereal grains, South Carolina 4809  
taxonomy 9081
- Cryptophilus integer**, cereal grains, South Carolina 4809
- Cryptophion**, taxonomy 8082
- Cryptophion espinozai**  
Costa Rica 8082  
hosts, *Pachylia ficus* 8082  
taxonomy, new species 8082
- Cryptophion manueli**  
Costa Rica 8082  
hosts, Spingidae 8082  
taxonomy, new species 8082
- Cryptophion tickelli**  
Costa Rica 8082  
hosts, *Eumorpha satelliata* 8082  
taxonomy, new species 8082
- Cryptophlebia illepipa**  
biology, behaviour 7854  
food plants, Hawaii 7854



- Cryptophlebia illepidia** *cont.*  
*Macadamia integrifolia*, Hawaii 11919  
 monitoring, traps 11919
- Cryptophlebia leucotreta**  
 avocados  
 damage 3563  
 South Africa 3563  
 cotton, Togo 8619  
 monitoring, traps 9539  
 South Africa 9539
- Cryptophlebia ombrodella**  
 biology, behaviour 7854  
 food plants, Hawaii 7854  
*Macadamia integrifolia*, Hawaii 11919  
 monitoring, traps 11919
- Cryptopygus**, taxonomy 5818
- Cryptopygus antarcticus**  
 Antarctica 141  
 biochemistry, lipids 141  
 lipids, determination 141
- Cryptopygus bipunctatus**  
 distribution, North America 5818  
 soil, Michigan 5818  
 taxonomy 5818
- Cryptorhynchinae**  
 Australia 2031  
 New Zealand 8052  
 taxonomy 8052
- Cryptosceneae**  
 distribution, China 5803  
 taxonomy 5803
- Cryptosceneae australiensis**  
 fruits, habitats, New Zealand 640  
 prey, *Pseudococcus* 640
- Cryptostigmata**  
 Amazonas 3072  
 biochemistry, enzymes 4916  
 coffee, habitats, Queensland 5596  
 ecology 3069, 7177  
*Festuca arundinacea*, habitats 10747  
 fields, UK 3069  
 fire, effects 3072  
 forest litter, Russia 9456  
 Mexico 1846  
 mosses, Switzerland 10580  
 ornamental plants 6976  
*Pinus*, forests, Poland 5675  
 soil, Egypt 676  
 soil fertility, biological indicators 1972  
 taxonomy 1846, 6976  
 urban soils, Japan 7177  
 waste land, Poland 9340  
 woodlands, UK 3069
- Cryptotermes brevis**  
 Florida 6968  
 plant extracts, antifeedants 9978  
 taxonomy 6968
- Cryptotermes cavifrons**  
 Florida 6968  
 taxonomy 6968
- Cryptothelea variegata** (*see Eumeta variegata*)
- Ctenarytaina thysanura**  
 biology, reproduction 1737  
*Boronia megastigma*, Tasmania 1737, 6833  
 ecology, life tables 6833  
 natural enemies 1737, 6833
- Ctenicera**, taxonomy 9054
- Cteniscus**  
 China 9425  
 taxonomy 9425
- Ctenopelma lucifer**  
 hosts, *Cephalcia arvensis* 5677  
*Picea abies*, forests, Italy 5677
- Ctenopharyngodon idella**, growth regulators, effects 5310
- Ctenopseustis herana**  
 control  
 chemical control 6628  
 controlled atmospheres 9012  
 fruits, New Zealand 6628  
 monitoring, traps 3310  
 New Zealand 9012  
 orchards, New Zealand 3310, 5254  
 predators 5254
- Ctenopseustis obliquana**  
 control 10869  
 chemical control 6628, 6692  
 controlled atmospheres 9012  
 fruits, New Zealand 6628
- Ctenopseustis obliquana** *cont.*  
 genetics 527  
 population genetics 11280  
 grapes, New Zealand 10869  
 kiwifruits, New Zealand 6692  
 monitoring, traps 3310, 6286  
 New Zealand 9012  
 orchards, New Zealand 3310, 5254  
 pheromones 527, 11280  
 predators 5254
- Cuba**  
 broadleaves, *Hypsipyla grandella* 1652  
*Citrus*, *Toxoptera citricidus* 4591, 6682  
 coffee  
*Ochetomyrmex auropunctatus* 4088  
*Perileucoptera coffeella* 1621-1622  
 pest control 2209  
*Phaseolus*, Chrysomelidae 1479  
*Phaseolus vulgaris*, insect pests 8695  
*Pinus*  
*Dioryctria horneana* 8908  
*Ips* 1689  
*Pinus caribaea*, *Rhyacionia frustrana* 1690  
 plantation crops, *Pheidole megacephala* 4642  
*Platypalpus* 914  
 rice, *Hydrellia* 4442  
 sugarcane, *Diatraea saccharalis* 8817
- Cubitermes**  
 Cameroon 8396  
 ecology, nests 8396  
 predators 282
- Cubitermes fungifaber**  
 Cameroon 8396  
 ecology  
 nests 8396  
 soil 8856  
 forests, Congo 8856
- Cucumber mosaic cucumovirus**  
 vectors  
 Aphididae 3521, 10777, 10824, 10836, 10993  
 detection 8342  
 Aphidoidea 7783, 10891, 11910
- Cucumbers** (*Cucumis sativus*)  
*Acalymma vittatum* 4541  
 Aphididae, Taiwan 10837  
*Aphis gossypii* 4518, 4535, 4539, 5384, 9826, 11821, 11836  
 Germany 10832  
 Japan 10288  
 Manipur 7798  
*Bactrocera cucurbitae* 11837  
*Bactrocera tau* 2540  
*Bemisia tabaci*  
 Costa Rica 629  
 Japan 10835  
 Netherlands 4759  
 commodities, growth regulators, residues, analysis 4068  
 extracts, attractants, *Phytoseiulus persimilis* 4355  
*Frankliniella occidentalis* 5511, 9825  
 resistance 6617  
 UK 625  
 greenhouses  
 insects, Germany 10832  
*Orius laevigatus*, UK 625  
 predatory mites 5174  
*Trialeurodes vaporariorum* 4544  
 Hemiptera, Italy 1525  
 insect pests  
 control, chemical control 7603  
 Italy 2539  
 Russia 2529  
 insecticides  
 metabolism 10612  
 residues 9395, 9596  
 determination 6498  
 integrated pest management 1524  
 interactions, insecticides 11821  
*Liriomyza trifolii* 10275  
*Megymenum brevicorne*, Malaysia 3531  
 pest control, Poland 1513  
*Romalea guttata* 2921  
*Tetranychus cinnabarinus*, Poland 10816  
*Tetranychus urticae* 4355  
 resistance 2399  
 Thysanoptera 11834
- Cucumbers** *cont.*  
*Trialeurodes vaporariorum* 8261, 9508, 9596  
 damage 11823  
 Uzbekistan 11823  
 Turkey 1470
- Cucumis melo** (*see Melons*)
- Cucumis melo var. agrestis**, *Trialeurodes vaporariorum*, resistance 6623
- Cucumis sativus** (*see Cucumbers*)
- Cucurbita**  
*Bactrocera depressa*  
 damage 6599  
 Korea Republic 6599
- Cucurbita maxima** (*see also* marrows, pumpkins and squashes)  
 trap crops, *Acalymma vittatum* 4541
- Cucurbita pepo** (*see also* marrows, pumpkins and squashes)  
*Bactrocera cucurbitae* 11837  
*Bemisia tabaci*  
 Florida 5510, 11774  
 yield losses 5510  
 extracts, effects, *Diaphania nitidalis* 5509  
 insect pests, Florida 11835  
*Thrips palmi*, Florida 11775
- Cucurbita texana**  
 Chrysomelidae, damage 6619  
*Epilachna borealis*, Delaware 6621
- Cucurbitaceae**  
*Acalymma vittatum* 4540  
*Bactrocera cucurbitae*, Pakistan 1528, 3006  
 Cerambycidae 3530  
 Chrysomelidae 4536  
*Diaphania nitidalis*, Florida 6616  
*Epilachna borealis* 6621  
*Leptoglossus australis*, Japan 4543  
 pest control, Queensland, books 5777
- Cucurbitacin**, effects, *Hylobius pales* 2258
- Cuelure**, mixtures, attractants, *Bactrocera cucurbitae* 3308
- Cultural control**  
*Anthonomus eugenii*, *Capsicum annuum* 4533  
*Bemisia tabaci*, tomatoes 10821  
 Cercopidae, pastures 3480  
*Chilo tumidicostalis*, sugarcane 11952  
*Cylas formicarius*, sweet potatoes 612, 4483  
*Cylindrocopturus adspersus*, sunflowers 6707  
*Delia antiqua*, *Allium* 11805  
*Helicoverpa armigera*, wheat 10694  
*Hylobius abietis*, Pinopsida 6779  
 insect pests  
 cotton 4664  
 rice 7694  
 sweet potatoes 11799  
 tea 2615  
*Lissorhoptrus oryzophilus*, rice 11739  
*Lygus spinolae*, tea 9935  
*Melanaspis glomerata*, sugarcane 10906  
*Orseolia oryzae*, rice 10729, 10734  
 pests, groundnuts 9919  
*Platypus*, *Nothofagus truncata* 7927  
*Scrobipalpula absoluta*, tomatoes 4530  
*Stephanitis pyrioides*, *Rhododendron* 8944  
 barriers, *Lymantria dispar*, *Quercus* 4697  
 burning, *Lasiopoda chichindae*, *Trichosanthes cucumerina* 637  
 composts, Lepidoptera, fruit trees 10839  
 cover crops  
 arthropod pests, orchards 643  
*Panonychus citri*, *Citrus* 668  
 crop density, control, Noctuidae, soybeans 9752  
 deep ploughing, Lepidoptera, fruit trees 10839  
 fallow, *Lasiopoda chichindae*, *Trichosanthes cucumerina* 637  
 fertilizers, *Diabrotica virgifera*, maize 10713  
 harvesting  
 Aphidoidea, tea 9936  
*Epicauta occidentalis*, lucerne 10749  
 intercropping  
*Chilo partellus*, cereals 5417  
*Frankliniella occidentalis*, strawberries 6664



**Cultural control cont.**

## intercropping cont.

*Hypena scabra*, soyabeans 10762

## insect pests

cabbages 7771

cowpeas 595

crops 532

field crops 8643

vegetables 615

*Lygus hesperus*, cotton 4661*Melanagromyza obtusa*, pigeon peas 7744*Phyllotreta cruciferae*, rape 1591

## irrigation

*Bemisia argentifolii*, cotton 10913*Plutella xylostella*, cabbages 9801

liming, insect pests, mulberries 10871

## live mulches

Aphididae, broccoli 6587

*Brevicoryne brassicae*, broccoli 4508manures, insect pests, *Lotus* 12035

mowing, insect pests, cotton 4662

## mulches

*Delia radicum*, Brassica 5493

Thysanoptera, leeks 10795

## mulching

Lepidoptera, cabbages 6589

*Leptinotarsa decemlineata*, potatoes 3502*Ophiomyia*, *Phaseolus* 3499plant density, *Cinara todocola*, *Abies**sachalinensis* 778

## planting date

Aphididae, radishes 6569

*Bemisia tabaci*, field crops 4664*Chalcodermus aeneus*, cowpeas 5469*Cylas formicarius*, sweet potatoes 11804*Diabrotica virgifera*, maize 10713

insect pests 3299

Lepidoptera, millets 2442

*Lissorhoptrus oryzophilus*, rice 6483

plastic tunnels, insect pests, asparagus

3522

## ploughing

*Anthonomus grandis*, cotton 5613

insect pests, mulberries 10871

*Mayetiola destructor*, wheat 6448

## pruning

insect pests, mulberries 10871

*Larvacarus transitans*, *Ziziphus**mauritanica* 3564

## Lepidoptera

cotton 11963

fruit trees 10839

rolling, *Costelytra zealandica*, pastures

11762

## rotations

*Atherigona soccata*, sorghum 10724*Diabrotica virgifera*, maize 4417insect pests, *Lotus* 12035*Lasiotera chichindae*, *Trichosanthes**cucumerina* 637

## sanitation

insect pests, mulberries 10871

Lepidoptera, fruit trees 10839

*Phyllonorycter ringoniella*, apples

10848, 11847

seedbeds, Isoptera, cassava 5471

shading, *Pissodes strobi* 9992shelterbelts, *Halotydeus destructor*, rape

11757

## sowing date

*Hypolixus truncatulus*, *Amaranthus**hypochondriacus* 4517

insect pests, pigeon peas 9762

*Laodelphax striatella*, rice 11747*Mayetiola destructor*, wheat 6448*Obereopsis brevis*, soyabeans 3492*Peregrinus maidis*, sorghum 5429*Rhopalosiphum maidis*, sorghum 5429thinning, *Hyllobius warreni*, *Pinus con-**torta* 6790

## tillage

*Diabrotica virgifera*, maize 4417,

10713

*Halotydeus destructor*, lupins 11757

slugs, lucerne 3482

*Spodoptera frugiperda*, maize 2424

## trap crops

*Faustinus apicalis*, tobacco 5600**Cultural control cont.**

## trap crops cont.

insect pests, tropical crops, reviews

9532

*Lilioceris merdiger*, onions 1500

undersowing, insect pests, cabbages 621

water conservation, Lepidoptera, fruit

trees 10839

**Cultural methods**

## effects

Araneae 1422

Carabidae 4399, 11791

*Catolaccus grandis* 6740

Formicidae, plantations 3608

insect pests, *Thyrsostachys siamensis*

2738

Syrphidae 6577

**Culture techniques***Ascosphaera proliferda* 2164*Bacillus thuringiensis* 262, 10413

Baculoviridae 11533

books 8038

*Beauveria bassiana* 8414*Bombyx mori*, cell lines 269

entomogenous fungi 372, 1258, 11508

entomopathogenic bacteria 7410

entomophilic nematodes 7485

*Heterorhabditis* 7403, 10934*Hexamermis* 6258*Metarhizium anisopliae* 5213, 7449-7450*Metarhizium flavoviride* 7420*Nosema furnacalis* 2179

nuclear polyhedrosis viruses 2165, 8421

*Paecilomyces farinosus* 4180*Photorhabdus luminescens* 7404*Sporothrix insectorum* 719*Verticillium lecanii* 4189**Cuminum cyminum**

insecticides, residues 11005

pest control 3678

**Cuniculina impigra** (see *Baculum impigrum*)**Cunninghamia lanceolata**, *Lobesia cun-**ninghamiicola*, China 10112**Cupiennius getazi**

biology, behaviour 7074

physiology, sound production 7074

**Cupiennius salei**

physiology

haemolymph 4946-4947

sense organs 5927

sensory system 10189

**Cupressaceae**, *Haematoloma dorsatum*, Italy

9665

**Cupressocyparis leylandii***Chamaediplosis nootkatensis*

British Columbia 6803

galls 6803

**Cupressus***Cinara cupressi*, Kenya 8932

Coleoptera, Switzerland 12031

*Phloeosinus*, Austria 10977**Cupressus funebris**, *Diplosocus*, Asia 14**Cupressus lusitanica***Cinara cupressi*

damage 7963

East Africa 1705

Kenya 7963, 8933

resistance 1705

**Curare**, effects, *Manduca sexta* 113**Curaterr** (see *Carbofuran*)**Curculio**

parasitoids 3

*Quercus* 3**Curculio elephas**

biology, life cycle 8873

chestnuts, France 1585

ecology 1585

*Quercus robur*

Croatia 8873

damage 8873

**Curculio glandium**

biology, life cycle 8873

*Quercus*

damage 7917

Romania 7917

*Quercus robur*

Croatia 8873

damage 8873

**Curculio morimotoi***Alnus hirsuta*, Honshu 12000

taxonomy, new species 12000

**Curculio nucum**

biology 11917

control, chemical control 11917

hazelnuts

America 9907

damage 11917

Europe 9907

Poland 11917

**Curculio venosus**

biology, life cycle 8873

*Quercus robur*

Croatia 8873

damage 8873

**Curculio villosus**

biology, life cycle 8873

*Quercus robur*

Croatia 8873

damage 8873

**Curculionidae***Acer campestre*, Slovakia 3648

Anhui 10290

attractants 1650

biology, seasonal abundance 4571

birds, interactions 11291

checklists, Italy 5088

distribution

Italy 5088

Moldova 10313

Norway 1692

Poland 5097

*Echium plantagineum*, France 5714

ecology 3648

habitats 1126

insect communities 10290

Florida 5073

food plants, Brazil 11291

forests, Slovakia 3076

Germany 1650

grasslands, Germany 1126

lucerne, New Zealand 6525

morphology, reproductive organs 10126

old fields, South Africa 7262

orchards, Slovakia 7802

parasitoids 11109

*Pinus sylvestris*, Norway 1692

plant growth regulators, effects 9913

predators 8869

*Quercus alba*, Missouri 8869

rape 9913

raspberries, Quebec 4571

taxonomy 5088, 8091, 10126, 11110

books 4818

wheat

commodities, Indian Punjab 6868

UK 4409

**Curculionoidea**, taxonomy 3742**Curculis salicivorus***Salix*

galls 7924

UK 7924

**Curcuma longa** (see *Turmeric*)**Curcuma xanthorrhiza**, extracts, toxicity,*Spodoptera littoralis* 6825**Curcuma zedoaria**, extracts, toxicity,*Spodoptera littoralis* 6825**Curinus coeruleus**

biology, behaviour 2132

prey, *Heteropsylla cubana* 2132**Cuscuta**, control, biological control 2757**Cuscuta americana**

extracts

insecticidal properties 8958

toxicity, *Tribolium castaneum* 8958**Cuscuta epithymum**, pollinators 3195**Cushaws** (see *Cucurbita*)**Custard apples** (see *Annona reticulata*)**Cut flowers**

arthropod pests 10049

control, chemical control 10048

pest control 869

reviews 784

**Cut foliage**, pest control, reviews 784**Cutworms** (see *Noctuidae*)**Cyamopsis tetragonoloba** (see *Guar*)

Cyanazine, extraction, water 502

**Cyaniris semiargus***Armeria velutina*, Spain 1743, 5052

biology, behaviour 5052

ecology, population dynamics 1743



- Cyanobacteria**  
insecticides  
degradation 4297  
effects 3349, 9622  
toxicity 2312  
pesticides, effects 5351
- Cyanocitta cristata**, prey, *Catocala* 3037
- Cyanophos**  
control, insect pests, cowpeas 9771  
effects, predatory insects 9771  
resistance, *Plutella xylostella* 10558
- 3-Cyano-4-((trifluoromethyl)sulfinyl)-5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- Cybocephalus**  
*Citrus*, orchards, Iran 3553  
dates, habitats, Gujarat 7858  
prey  
*Aonidiella orientalis* 3553  
insect pests 7858
- Cybocephalus nipponicus**, prey, *Unaspis euonymi* 10001
- Cycadaceae**  
books 886  
insect pests, Australia 10932  
pests 886
- Cycads**  
Coleoptera  
Mexico 1638  
pollination 1638
- Cycas**, insects, Australia 5622
- Cyclamen**  
*Bradysia*, UK 793  
greenhouses, *Stratiolaelaps miles*, UK 793  
*Otiorynchus sulcatus* 7973
- Cyclobalanopsis glauca** (see *Quercus glauca*)
- Cyclocephala**  
control 9858  
Guatemala 11097  
strawberries, Chile 9858  
taxonomy 11097
- Cyclocephala hirta**  
control, biological control 791  
lawns and turf, California 791  
pathogens 791
- Cyclocephala jalapensis**, *Magnolia schiedeana*, Mexico 4714
- Cyclocephala lurida**  
biology, behaviour 2725  
lawns and turf 2725
- Cyclocephala pasadenae**  
control, physical control 10987  
lawns and turf 10987  
plant growth regulators, effects 8676  
*Poa pratensis*, damage 8676
- Cyclocephala signaticollis**  
biology, life cycle 4484  
potatoes, Argentina 4484, 7750, 10782
- Cyclochila australasiae**  
biology, behaviour 9320  
physiology, sound production 9320
- γ-Cyclodextrin**, toxicity, rats 3364
- Cyclodextrins**, interactions, insecticides 4239
- Cyclodiene**  
resistance  
*Drosophila* 6324  
*Drosophila melanogaster* 3334
- Cyclodiene insecticides**  
chemistry 4244  
resistance  
*Anthonomus grandis* 9958  
*Drosophila* 9833  
*Heliothis virescens* 5111, 5296  
*Hypothenemus hampei* 258  
insect pests 10608  
detection 9399  
*Tribolium castaneum* 4255, 9239
- Cyclohexamide**, effects, *Gryllus bimaculatus* 8167
- Cycloheximide**, effects, *Acyrtosiphon pisum* 6326
- Cycloneda ancoralis**, prey, Aphididae 1218
- Cycloneda munda**  
lucerne, fields, Iowa 3484  
prey, lucerne, insect pests 3484
- Cycloneda sanguinea**  
ecology, population dynamics 4506  
kale, fields, Minas Gerais 4506  
*Phaseolus*, fields, El Salvador 8694  
prey, *Epilachna varivestis* 8694
- Cyclophragma yamadai**  
pathogens 7914  
*Quercus acutissima*, Japan 7914
- Cycloprothrin**, control, Coleoptera, rice 6495
- Cycloptis semicordata**  
extracts  
insecticidal properties 8958  
toxicity, *Tribolium castaneum* 8958
- Cyclorrhapha**  
morphology, genitalia 11148  
taxonomy, phylogeny 1801
- Cynia tenera**, physiology, sense organs 8158
- Cydia amplana**  
*Quercus*  
damage 7917  
Romania 7917
- Cydia caryana**  
biology 4611  
monitoring, traps 4611, 9906  
pecans, Alabama 4611, 9906
- Cydia fagiglandana**  
biology, behaviour 9979  
parasitoids 9979  
plant extracts, effects 9979
- Cydia funebrana**  
biology, behaviour 6703  
chestnuts, Italy 6703  
ecology, population dynamics, models 10858  
monitoring, traps 6703, 10858  
plums, Czech Republic 10858
- Cydia hemidoxa**  
pathogens 810  
*Piper betle*, Andaman and Nicobar Islands 1718  
*Piper nigrum*  
damage 8962  
Kerala 810, 8962
- Cydia janthinana**, apples, Hungary 10846
- Cydia latiferreana**  
hazelnuts 9907  
North America 4612
- Cydia lobarzewskii**, apples, Hungary 10846
- Cydia molesta**  
biology 1548, 7808  
control 7808  
chemical control 1548, 7809  
mating disruption 2543-2544, 6659-6660  
trapping 11863  
diets 9378  
distribution, Sweden 10299  
ecology, population dynamics 6291  
forecasting 6291  
fruits 7801  
Europe 2543-2544  
Honshu 6291  
pathogens 8411  
peaches  
Bulgaria 11863  
Italy 1548, 6659  
Ontario 6660  
pheromones 11687  
pome fruits, Italy 7808-7809  
rearing techniques 9378
- Cydia nigricana**  
control  
biological control 9526  
chemical control 9526  
mating disruption 4480  
Germany 9526  
peas, Sweden 4480  
pheromones 4480
- Cydia packardii**  
ecology, interspecific competition 7813  
Rosaceae, Michigan 7813
- Cydia pomonella**  
apples 2561, 9545, 9836  
California 2551, 4558, 11851  
damage 11858  
Germany 4559  
Hungary 10846  
Iowa 9844  
Italy 5525, 6646
- Cydia pomonella cont.**  
apples cont.  
Pennsylvania 11849  
Switzerland 8756  
Washington 1538, 8757, 11858  
Yugoslavia 1539
- biochemistry 7626  
enzymes 9160
- biology 7808  
behaviour 3987, 9703  
oviposition 4382
- cold storage, effects 6265  
control 7808, 8756  
chemical control 10843, 11849  
integrated control 5517, 10841  
mating disruption 1538, 2543-2544, 2549, 5525, 6626, 11858
- distribution, China 9829  
ecology, interspecific competition 7813  
forecasting 4559  
fruits, Europe 2543-2544
- growth regulators  
effects 10549  
resistance 6646  
toxicity 6329
- heat treatment, effects 6265
- insecticides  
resistance 10841  
toxicity 9836
- Lobesia botrana*, semiochemicals, repellents 4382
- maize, California 9703  
monitoring 2561  
traps 1539, 5549, 9703
- parasitoids 3230  
pathogens 7397, 9526  
pesticides, toxicity 11849  
pheromones 7626, 9703  
physiology  
pheromones 9654  
reproduction 10549
- plant extracts, effects 9545
- pome fruits  
Australia 2549  
China 9829  
Iraq 10843  
Italy 7808  
South Africa 10841  
Victoria 5517
- predators 4558  
Rosaceae, Michigan 7813  
tree fruits, Germany 6626
- Cydia prunivora**  
ecology, interspecific competition 7813  
Rosaceae, Michigan 7813
- Cydia ptychora** (see *Leguminivora ptychora*)
- Cydia splendana**  
biology, behaviour 9979  
chestnuts, France 8799  
parasitoids 9979  
pheromones 8799  
plant extracts, effects 9979
- Quercus*  
damage 7917  
Romania 7917
- Cydia strobilella**  
biology, population dynamics 9993  
*Picea abies*, Switzerland 9993
- Cydniidae**  
morphology, mouthparts 1862  
Nicaragua 10316
- Cydonia**, *Aleurocanthus woglumi* 10046
- Cydonia oblonga** (see *Quinces*)
- Cydonia vulgaris** (see *Quinces*)
- Cyfloxylate** (see *Cyfluthrin*)
- Cyfluthrin**  
control  
*Bemisia tabaci*, tomatoes 8742  
Coleoptera, wheat, commodities 9008  
*Delia coarctata*, wheat 6438  
*Formica exsectoides* 580  
*Helicoverpa armigera*, chickpeas 10771  
insect pests, soyabeans 9750  
Pentatomidae, rice 1460  
*Rhopalosiphum maidis*, maize 554
- effects  
Coleoptera 2784  
*Spodoptera littoralis* 4247  
interactions, *Metarhizium anisopliae* 1336



**Cyfluthrin** *cont.*

- mixtures
  - control, *Bemisia tabaci*, tomatoes 4521
  - effects, Coleoptera 2784
  - nontarget effects, soil 10647
- residues
  - effects, Pyralidae 11042
  - foods, analytical methods 10331
  - soil 11671
- resistance, *Bracon hebetor* 9613
- toxicity

*Aphis gossypii* 6625

Braconidae 10587

Coleoptera, wheat, commodities 11043

*Heliothis virescens* 8842

sorghum 2437

with tebupirimfos, effects, soil 10647

**Beta-cyfluthrin**

control

Pentatomidae, rice 1460

*Scrobipalpus absoluta*, tomatoes 4530

usage 1314

**Cyhalothrin**

control

Aphididae, wheat 3429

*Formica exsectoides* 580

*Helicoverpa armigera*, chickpeas 10771

insect pests

cotton 7896

groundnuts 3584

*Leucinodes orbonalis*, aubergines 7794

*Lipaphis erysimi*, sarson 1502

*Thrips palmi*, vegetables 11775

residues

determination 4806

foods, analytical methods 10331

resistance, *Helicoverpa armigera* 412, 10546

toxicity, Braconidae 10587

**Lambda-cyhalothrin**

toxicity, insects 439

control

Aphididae 2405

cereals 1423

parsley 8965

arthropod pests

crops 11706

pastures 11706

*Bemisia tabaci*, *Capsicum* 10830

insect pests

cowpeas 1488

soyabeans 9750

wheat 11724

*Metcalfa pruinosa* 11854

Noctuidae, cotton 11969

*Pantomorus cervinus*, *Citrus* 5556

Pentatomidae, rice 1460

*Scrobipalpus absoluta*, tomatoes 4530

*Sitobion avenae*, cereals 7642

effects

*Apis mellifera* 5193

Linyphiidae 7571

*Pterostichus cupreus* 4293

*Tribolium castaneum* 6343, 10518

mixtures, control, *Bemisia tabaci*, tomatoes 4521

nontarget effects

Araneae 1423

beneficial insects 6522

residues, invertebrates 6369

resistance

Aphididae 7552

*Helopeltis theivora* 3607

*Plutella xylostella* 11594

sorption, soil 9643

toxicity

*Ostrinia nubilalis* 9579

*Tribolium castaneum* 1330

**Cyhexatin**

control

*Aculus schlehtendali* 2225

*Tetranychus urticae*, apples 2550

resistance, *Tetranychus urticae* 2724, 4579

toxicity, *Tetranychus urticae* 9597

**Cylapus**

biology 188

Peru 188

**Cylapus tenuicornis**

biology 188

Peru 188

**Cylas**

biology, environmental factors 8717

sweet potatoes

Cameroon 8717

resistance 8717

yields 8717

**Cylas brunneus**

control, cultural control 11799

sweet potatoes, Kenya 11799

**Cylas formicarius**

sweet potatoes, Japan 7763

biology 11800

behaviour 4502, 7213, 7763, 11802

measurement 7307

dispersal 4500

control 612, 4483

biological control 2517

chemical control 2518, 4483, 5481

cultural control 11804

trapping 7763

ecology, population dynamics 4501

flight, measurement 7213

genetics, chromosomes 4988

insecticides, toxicity 11601

monitoring, traps 11802

pathogens 612

radiation, effects 9790

sweet potatoes 4483, 4502

commodities 9790

damage 11053

India 11053

damage 11801

Florida 2517

Jamaica 2518

Japan 4500-4501

Kerala 3511, 11802

Maharashtra 5481, 11804

Philippines 4988

resistance 2519, 3511-3512, 7764, 8715, 11800

Southern Africa 11801

Taiwan 612

Tamil Nadu 3512

**Cylas formicarius elegantulus**

insecticides, toxicity 5291

monitoring, traps 8716

pheromones 8716

sweet potatoes, Venezuela 8716

**Cylas puncticollis**

control, cultural control 11799

sweet potatoes

damage 11801

Kenya 11799

Southern Africa 11801

**Cylindrocopturus adpersus**

biology, development 1110

control, cultural control 6707

parasitoids 681

sunflowers, North Dakota 681, 6707

**Cylindroiulus britannicus**, cadmium, toxicity 9543

**Cylindrothorax tenuicollis**, taxonomy 2856

**Cylister linearis**

biology, behaviour 2390

*Pinus sylvestris*, habitats, Sweden 2390

prey, *Tomicus piniperda* 2390

**Cymbopogon citratus**

extracts

effects

*Aphis craccivora* 807

*Callosobruchus maculatus* 8952

*Crocidolomia binotalis* 8960

*Sitophilus zeamais* 3676

insecticidal properties 8952, 8960

insecticidal properties 807

**Cymbush Super** (see Cypermethrin)**Cymiazole**

residues

determination 10605

honey 10605

**Cymopterus**, *Papilio zelicaon*, USA 11316**Cymoxanil**, resistance, *Kampimodromus*

*aberrans* 1560

**Cynaesus angustus**

barley, commodities, Montana 5741

**Cynaesus angustus** *cont.*

cereal grains, South Carolina 4809

predators 5741

**Cynara scolymus** (see Globe artichokes)

**Cynegetis impunctata**, distribution, Turkey 1149

**Cynipidae**

evolution, parasitism 3740

morphology 3740

*Quercus*

galls 10937

UK 10937

taxonomy 11113

**Cynips**, taxonomy 2836**Cynodon dactylon**

*Chinomis haywardi* 3425

*Listronotus bonariensis*, resistance 6852

*Scaptocoris castanea*, Sao Paulo 2477

*Spodoptera frugiperda* 10685

*Taeniopoda eques*, Arizona 8259

**Cynoglossum creticum**, *Pachycerus*

*cordiger*, France 2745

**Cynoglossum officinale**

*Ceutorhynchus crucifer*, Netherlands 2748

habitats, *Tersilochus*, Netherlands 2748

**Cyperaceae**

Auchenorrhyncha, Czech Republic 8969

*Peloidas mathias* 6409

**Cypermethrin**

control

*Abacarus sacchari*, sugarcane 5584

*Anthonomus grandis*, cotton 4654, 9950

*Antigastra catalaunalis*, sesame 11942

*Aproaerema modicella*, groundnuts 8811

*Bemisia tabaci*

*Capsicum* 10830

tomatoes 8742

*Vigna radiata* 11789

*Brevicoryne brassicae*, Indian mustard 1609

*Conorhynchus mendicus*, sugarbeet 1617

*Contarinia*, *Jasminum sambac* 3665

*Cylas formicarius*, sweet potatoes 5481

*Diaphorina citri*, oranges 8783

*Empoasca kraemeri*, cowpeas 1485

insect pests

apples 4547

cotton 1631, 7896

cowpeas 595, 1488, 8704, 9771

maize, commodities 10039

okras 6624

pigeon peas 8697

sorghum 7689

soyabeans 9750

Lepidoptera, cabbages 1509

*Leucinodes orbonalis*, aubergines 3526, 10827

*Lipaphis erysimi*

Indian mustard 5497, 5698

sarson 1502

*Lygus*, *Anethum graveolens* 8963

*Mayetiola destructor*, wheat 6447

*Mythimna separata*

rice 2467

wheat 538

*Neoleucinodes elegantalis*, tomatoes 9811

*Phthorimaea operculella*, potatoes 3503, 3510

*Pieris brassicae*, cauliflowers 618

*Pycnoscelus*, medicinal plants, commodities 3712

*Tetranychus*, cotton 4653

*Thrips tabaci*, onions 7765

degradation

*Capsicum* 6614

soil 7619

effects

*Aphis gossypii* 3613

*Chrysoperla carnea* 456

Coleoptera 10038

cotton 3617

mice 5307

Myriapoda 2343

*Neoseiulus fallacis* 3344



**Cypermethrin** *cont.*effects *cont.*

- nontarget organisms 4302
- onions 9793
- predatory insects 9771
- rats 2331, 8539

- formulations, analytical methods 10333
- interactions, *Metarhizium anisopliae* 1336
- mixtures

## control

- Bemisia tabaci*, tomatoes 4521
- Pectinophora gossypiella*, cotton 3622

## effects

- cotton 8839
- Noctuidae 8496
- toxicity, *Bemisia tabaci* 5616

## nontarget effects

- Hymenoptera 4104
- Pieris brassicae* 11618
- predatory arthropods 9947
- predatory insects 6162
- predatory mites 9839

## penetration, clothing 4232

## residues

- cauliflowers 618
- determination 4806
- leafy vegetables 3513
- maize, commodities 10039
- okras 5512, 6624
- rain 10661
- soil 2385

## resistance

- Aphididae 7552
- Bemisia tabaci* 5616, 11587
- Helicoverpa armigera* 412, 10546, 10557
- Heliothis virescens* 716, 2627, 4256, 8506, 9584, 10555-10556, 11966

- Helopeltis theivora* 3607
- Neoseiulus longispinosus* 449
- Scirtothrips dorsalis* 7550
- Sitophilus zeamais* 8515

- synergists, effects, *Helicoverpa armigera* 8501

## toxicity

- Aphis gossypii* 6625
- Apis mellifera* 474, 3361, 11619
- Braconidae 10587
- carp 10607
- Cheilomenes sexmaculata* 11611
- Crustacea 6373
- Cylas formicarius* 11601
- Eutectona machaeralis* 1335
- fishes 5326
- insect pests 6548
- Plutella xylostella* 10669
- Rhyzopertha dominica* 10037
- sorghum 2437
- Spodoptera litura* 9908
- stored products pests 833
- with dimethoate, control, insect pests, cowpeas 11785
- with profenofos, effects, Acrididae 4079
- with (9Z,12E)-9,12-Tetradecadienyl acetate, control, *Ephesia kuehniella*, flours 11046

**Alpha-cypermethrin**

## control

- Aphididae, wheat 3429
- arthropod pests
- crops 11706
- pastures 11706
- insect pests
- cotton 7896
- cowpeas 1488
- okras 6624
- Iridomyrmex*, oranges 11892
- Lepidoptera, cotton 8836
- Leptinotarsa decemlineata*, potatoes 11794

## effects

- Halotydeus destructor* 3332
- Neoseiulus fallacis* 3344
- rain 3332

## residues

- okras 6624
- tea 10620
- commodities 10620

**Alpha-cypermethrin** *cont.*

## resistance

- Aphididae 7552
- Helopeltis theivora* 3607
- Scirtothrips dorsalis* 7550
- synergists, effects, *Helicoverpa armigera* 8501
- toxicity, *Apis mellifera* 474

**Zeta-cypermethrin**, toxicity, *Ostrinia nubilalis* 9579**Cyperus**, *Thripsaphis*, Hebei 6956

- Cyperus papyrus*, *Eldana saccharina* 7216
- Cyperus rotundus*, *Thripsaphis balli*, China 6956

**Cyphenothrin**, toxicity, Heteroptera 8492**Cyphocleonus achates**

- Centaurea* 828
- Centaurea maculosa* 1755
- control, *Centaurea*, evaluation 828

**Cyresses** (see *Cupressus*)**Cyprinodon variegatus**, pesticides, toxicity 1344**Cyprinus carpio**, acaricides, effects 5308**Cyprus**

- pesticides, usage 1315
- Pinus*, *Matsucoccus josephi*, predators 2697
- Pinus halepensis*, *Cryptolestes halevyae* 2691
- plant protection, reports 2806

**Cyrtilla racemiflora**, habitats, insects, Puerto Rico 6767**Cyromazine**

## effects

- beneficial organisms 2335
- Ceratitis capitata* 4248
- Coccinellidae 444
- Trichogramma pretiosum* 7570
- residues, celery 1511
- toxicity

- Ceraeochrysa cubana* 4324
- Ceratitis capitata* 7529
- Eulophidae 7577

**Cyrtobagous salviniae**, control, *Salvinia molesta* 5720**Cyrtopeltis geniculata** (see *Cyrtopeltis modesta*)**Cyrtopeltis modesta**, tomatoes, fields, Spain 7788**Cyrtopeltis tenuis**

- biology 11447
- control, chemical control 6615
- greenhouses, habitats, Mediterranean Region 11447
- Lagenaria siceraria*, Uttar Pradesh 6615
- morphology 11447
- prey, Aleyrodidae 11447
- tomatoes, fields, Spain 7788

**Cyrtorhinus lividipennis**

- biology
- dispersal 7698
- environmental factors 9416
- insecticides, effects 9722
- prey

- Delphacidae 9416
- Nilaparvata lugens* 6482
- Sogatella furcifera* 8664

## rice

- fields
- Indonesia 6482
- Philippines 8664
- Japan 7698
- Orissa 9722

**Cyrtotrachelus**

- bamboos, Thailand 11008
- cultural methods, effects 2738
- Thyrsostachys siamensis*, Thailand 2738

**Cytherea**, prey, *Doclostaurus maroccanus* 6148**Cytisus alternatus**

- monitoring, traps 6662
- raspberries, Quebec 6662

**Cytisus**, *Thrips paramadronii* 919**Cytisus praecox**

- Aceria genistae*
- galls 1713
- UK 1713

**Cytisus scoparius**

- invertebrates, New Zealand 6849
- Torymus pascuorum*
- Europe 1826

**Cytisus scoparius** *cont.*

- Torymus pascuorum* *cont.*
- galls 1826

**Cytogenetics**, Hymenoptera, chromosomes 4987**Cytoplasmic polyhedrosis viruses**

## genetics

- gene expression 1935

- genes 4156

## hosts

- Bombyx mori* 1935
- Callixena versicolora* 8435
- Helicoverpa assulta* 11476
- Heliothis virescens* 4657
- insects 4174
- Lepidoptera 4156, 8435
- Lymantria dispar* 8445

**Cyzenis**

- distribution, Nearctic Region 1831
- taxonomy 1831

**Cyzenis albicans**

- control, *Operophtera brumata* 1831
- Czech Republic 2107
- heavy metals, effects 2107
- hosts, *Operophtera brumata* 1831, 2107
- morphology 1831
- Nearctic Region 1831

**Cyzenis pullula**

- morphology 1831
- Nearctic Region 1831

**Czech Republic**

- Agrotis ustulatus* 9284
- brewers' yeast, *Dienerella filum* 12076
- Cecidomyiidae 5085
- cereals, Aphididae 6422
- Cicadelloidea 5077
- Coccinella septempunctata* 9335
- forest trees, *Hylobius abietis* 12006
- forests, *Hylobius abietis* 7905
- fruits, integrated pest management 6630
- grapes, *Lobesia botrana* 10866
- greenhouse crops

- Helicoverpa armigera* 10820
- Thripidae 1411

- habitats, Diplopoda 7251

- lentils, *Contarinia lentis* 1481

- Lepidoptera 234

- lucerne, fields, beneficial insects 6522
- maize, *Metopolophium dirhodum* 555
- monocotyledons

- Auchenorrhyncha 8969
- Cicadellidae 7255

- Operophtera brumata*, parasitoids 2107
- ornamental plants, *Frankliniella occidentalis* 6807

- Ostrinia nubilalis* 517

- Panonychus ulmi* 6112

- pears, *Cacopsylla pyricola* 6653

- pesticides, air pollution 7607

- Phellinus*, *Dorcatoma minor* 6962

- Phorbia* 5788

- Pinopsida, *Hylobius abietis* 12007

- Pinus sylvestris*, *Neodiprion sertifer* 8909

- plums, *Cydia funebrana* 10858

- rape, Coleoptera 4570

- Sarcophagidae 4294

- Sciariidae 11370

- Sitona sulcifrons* 5012

- stone fruits, integrated pest management 5532

## sugarbeet

- Aphididae 5589
- insect pests 5588, 6726

*Torymus* 1826

- vegetables, insecticide residues 3517
- water, insecticide residues 3517
- wheat

- Cecidomyiidae 6440, 6444
- Oulema* 10698

**2,4-D**

- insecticides, interactions 6470
- toxicity, *Metarhizium anisopliae* 2307
- D5281** (see 2-(4-Bromophenyl)-4-(2-fluoroethyl)-5,6-dihydro-4H-1,3,4-oxadiazine hydrochloride)

**Dacne japonica**, *Lentinula edodes*, Japan 2739**Dacnusa**, hosts, *Liriomyza bryoniae* 11828**Dacnusa sibirica**

- biology
- development 1877, 5855



- Dacnusa sibirica* cont.  
biology cont.  
environmental factors 7365  
hosts, *Chromatomyia syngenesiae* 1877, 5855, 7365
- Dacrydium colensoi*, *Eriochiton propespinosus*, New Zealand 4870
- Dacryodes excelsa*, forests, snails, Puerto Rico 1239
- Dactylis glomerata*  
habitats, predatory arthropods, UK 9380  
insect pests  
control, chemical control 6527  
Norway 6527  
*Listronotus bonariensis*  
damage 6508  
New Zealand 6508  
*Poanes melane* 5402  
*Spodoptera frugiperda* 5455
- Dactylispa setifera*  
biochemistry, chemical composition 7106  
food plants 7106
- Dactyloctenium aegyptium*, *Pelopidas mathias* 6409
- Dactylopius confusus*  
biochemistry, defensive secretions 3826  
biology, behaviour 3826
- Dactylophaera vitifoliae* (see *Viteus vitifoliae*)
- Dactylosternum abdominale*  
bananas, plantations, Kenya 10874  
ecology 10874
- Dactylozodes alternans*  
ecology, population dynamics 5716  
*Gutierrezia*, Argentina 5716
- Dactylozodes okea*  
ecology, population dynamics 5716  
*Gutierrezia*, Argentina 5716
- Dacus*, distribution, Taiwan 3101
- Dacus cucurbitae* (see *Bactrocera cucurbitae*)
- Dacus dorsalis* (see *Bactrocera dorsalis*)
- Dacus frauenfeldi* (see *Bactrocera frauenfeldi*)
- Dacus musae* (see *Bactrocera musae*)
- Dacus occipitalis*  
distribution, China 5549  
monitoring, traps 5549
- Dacus oleae* (see *Bactrocera oleae*)
- Dacus pedestris*  
distribution, China 5549  
monitoring, traps 5549
- Dacus tryoni* (see *Bactrocera tryoni*)
- Dacus xanthodes* (see *Bactrocera xanthodes*)
- Daemonorops hystrix*  
*Macrochirus praetor*  
damage 2736  
Indonesia 2736-2737
- Daffodils* (see *Narcissus*)
- Dairy farming*, integrated pest management, New York 10479
- Daktulosphaira vitifoliae* (see *Viteus vitifoliae*)
- Dalbergia*  
*Kerria yunnanensis*, Yunnan 1236  
*Metatachardia sinensis*, Yunnan 22
- Dalbergia sissoo*  
*Brevipalpus phoenicis*, resistance 4391  
*Eriophyes*  
damage 1543  
galls 1543  
India 1543  
habitats, parasitoids, India 5158  
*Sinoxylon anale*, India 5158
- Dalbulus elimatus*  
biology 10746  
Poaceae, Mexico 10746
- Dalbulus gelbus*, Poaceae, Mexico 10746
- Dalbulus guevarai*, Poaceae, Mexico 10746
- Dalbulus maidis*  
biology 9698, 10746  
behaviour 3439  
life cycle 3439  
overwintering 1439  
maize 1439, 7684, 8641, 9698  
pathogens 4168  
plant pathogens, transmission 1439, 4168, 4208, 7684, 8641, 9698  
Poaceae, Mexico 10746  
*Zea*, Argentina 3439
- Dalbulus quinquenotatus*  
biology 10746  
insects, interactions 11761  
parasitoids 11761  
Poaceae, Mexico 10746  
*Tripsacum dactyloides*, Mexico 11761
- Dalbulus tripsacoides*, Poaceae, Mexico 10746
- Dalceridae*, taxonomy 3747
- Dalcerides ingenita*  
*Camponotus abdominalis*, interactions 4895  
morphology, integument 4895
- Dalya*, taxonomy 3776
- Dalya rathmanae*, North America 3776
- Dalya subclavata*, North America 3776
- Daminozide*, effects, predatory arthropods 11640
- Danaus*  
biochemistry, secretions 4937  
Kenya 4937
- Danaus chrysippus*  
*Acraea*, interactions 1137, 4034  
Africa 1137, 4034
- Danaus gilippus*  
*Asclepiadaceae*, Florida 4025  
*Basilarchia archippus*, interactions 4025  
predators 4025
- Danaus plexippus*  
*Abies*, Mexico 5679  
*Asclepias* 10154  
North America 146  
biochemistry, defensive secretions 146  
biology  
behaviour 5679, 9289  
environmental factors 4019  
flight 2964  
migration 7224  
reproduction 10144  
California 5080, 9289  
genetics, genes 2964  
Ohio 4019, 7224  
physiology, cardiac glycosides 10154  
predators 5080  
Southern Africa 9375
- Daphnephila machilicola*, *Persea*, Japan 6802
- Daphnia magna*  
insecticides  
effects 4287  
toxicity 4305
- Daphnia pulex*, insecticides, effects 2302, 6371
- Dapsilarthra balteata*  
distribution, Japan 4841  
hosts, Agromyzidae 4841  
taxonomy 4841
- Dapsilarthra okazakii*  
hosts, Agromyzidae 4841  
*Sambucus sieboldiana*, habitats, Honshu 4841  
taxonomy, new species 4841
- Dapsilarthra rufiventris*  
distribution, Japan 4841  
hosts, Agromyzidae 4841  
taxonomy 4841
- Dascillidae*, distribution, Nicaragua 3112
- Dasineura brassicae*  
cereals, Denmark 2409  
crops, Sweden 1300  
ecology, seasonal abundance 2409  
*Platygaster oebalus*, interactions 2592  
rape  
Denmark 2592, 3573  
Poland 3577  
resistance 3577
- Dasineura copacabanensis*  
*Eugenia*, Rio de Janeiro 3775  
taxonomy, new species 3775
- Dasineura gleditschiae*  
food plants, Italy 5155  
natural enemies 5155
- Dasineura ingeris*  
*Salix viminalis*  
galls 8880  
Sweden 8880  
taxonomy, new species 8880
- Dasineura iteobia*  
morphology 8880  
*Salix* 8880
- Dasineura laricis*  
*Larix*, Europe 1826  
parasitoids 1826
- Dasineura mali*  
apples, New Zealand 6638  
control, chemical control 6638
- Dasineura marginemtorquens*  
biology, behaviour 4705, 10262  
*Salix viminalis*  
galls 10262  
resistance 4705  
Sweden 4705
- Dasineura rigidae*  
*Salix*  
galls 5650  
New York 5650  
resistance 5650
- Dasineura schreiteri*  
morphology 8880  
*Salix* 8880  
taxonomy, from *Rabdophaga* 8880
- Dasineura terminalis*, morphology 8880
- Dasineura tetensi*, *Ribes*, certification 10862
- Dasineura urticae*  
parasitoids 1759  
*Urtica dioica*  
galls 1759  
Germany 1759
- Dasycerus bicolor*  
*Abies*, forests, USA 35  
taxonomy, new species 35
- Dasychira baibarana*  
China 3199  
chitin synthesis inhibitors, effects 3408  
parasitoids 3199
- Dasychira mendosa*, mangoes, West Bengal 5558
- Dasyhelea arenosa*  
distribution, Spain 9738  
fodder crops, Spain 9738
- Dasyhelea punctiventris*  
distribution, Spain 9738  
fodder crops, Spain 9738
- Dasyhippus barbipes*  
ecology, insect communities 8298  
steppes, Nei Menggu 8298
- Databases**  
Formicidae 11417  
pesticides 406
- Datana ministra*, *Betula papyrifera* 5636
- Dates** (*Phoenix dactylifera*)  
*Apomyelois ceratoniae* 4604  
*Cadra*, Egypt 3540  
commodities  
*Cadra cautella* 7839  
Pyralidae, Iraq 851  
habitats  
beneficial insects, Gujarat 7858  
*Diloponiss fuerschii*, Iran 674  
insect pests, Gujarat 7858  
Nitidulidae, California 6674  
odours, attractants, *Apomyelois ceratoniae* 4604  
orchards, *Chilocorus nigrita*, Gujarat 1579  
*Parlatoria blanchardii*  
Gujarat 1579  
Iran 674  
Tunisia 9900  
varietal susceptibility 9900
- Datura godronii* (see *Datura stramonium*)
- Datura inermis* (see *Datura stramonium*)
- Datura metel*, extracts, toxicity, *Rhyzopertha dominica* 10036
- Datura stramonium*  
extracts, effects, Coleoptera 4801  
*Frankliniella occidentalis* 6263  
insect pests, varietal reactions 3696  
*Thrips temporatus* 3529
- Datura tatula* (see *Datura stramonium*)
- Daucus carota* (see Carrots)
- DDAC, effects, Isoptera 11045
- DDD (see TDE)  
effects, *Halichoerus grypus* 3373  
residues  
carrots, commodities 10604  
determination 10604  
toxicity, *Hyalella azteca* 1345
- DDE**  
analysis 2348



- DDE** *cont.*  
 effects  
   birds 8550  
   *Halichoerus grypus* 3373  
   rats 11606  
 extraction, water 502  
 nontarget effects  
   Cetacea 3379  
   *Larus argentatus* 4306  
   *Mergus serrator* 8537  
   *Pandion haliaetus* 2290  
   *Streptopelia risoria* 7588  
 residues  
   analysis 3343, 5341  
   aquatic organisms 2353, 4322  
   *Aythya americana* 2327  
   birds 2328, 7589, 10655, 11624  
   *Chelydra serpentina* 10625  
   Chiroptera 5345  
   crops 3398  
   determination 4806  
   environment 5332  
   extraction 4336  
   fishes 1370, 3343, 5344, 6363, 6368  
   food 467  
   *Gadus morhua* 5343  
   honey, analysis 10634  
   human milk 4312, 6350  
   lakes 6383  
   *Larus occidentalis*, eggs 11648  
   *Lutra lutra* 5324  
   mammals 1342  
   man 7561, 8562, 8564, 11633  
   milk 8517  
   *Nycticorax nycticorax* 10626  
   *Phoca vitulina* 5341  
   *Picea abies* 4347, 10968  
   *Pinus sylvestris* 5671  
   *Pseudacris crucifer* 9606  
   rivers 2382, 3400, 3403, 7613  
   salt marshes, sediment 4344  
   sediment 1345, 10655  
   *Sterna caspia* 1346  
   turtles 3372  
   water 2346, 11674  
 toxicity  
   *Artemia salina* 4289  
   *Hyalella azteca* 1345
- DDT**  
 carcinogens, man 481  
 chemistry 4064  
 degradation 11658  
 effects  
   Amphipoda 3377  
   aquatic organisms 2302  
   *Dictyostelium discoideum* 4280  
   man 11623  
   *Paramecium tetraurelia* 10595  
   *Poecilia latipinna* 8529  
   rats 11606, 11632  
 intake, man 10576  
 interactions, *Metarhizium anisopliae* 1336  
 metabolism, skin 8523  
 nontarget effects  
   aquatic animals 2296  
   aquatic organisms 10628  
   birds 460, 2291  
   Cetacea 3379  
   marine mammals 3378, 3380  
   *Mergus serrator* 8537  
   *Pandion haliaetus* 2290  
   predatory insects 1633  
   *Stenella coerulescens* 7617  
 penetration, clothing 4070  
 residues 4311  
   analysis 471, 5341  
   aquatic environment 5363  
   aquatic organisms 471, 4322, 11647  
   birds 4279, 4311, 5323, 11610  
   cereals, commodities 6882  
   cod liver oil 3367  
   determination 4806  
   drinking water, extraction 7609  
   environment 3517  
   ewe milk 7555  
   extraction 4336, 11395  
   *Falco rusticolus* 11649  
   fisheries 11609  
   fishes 461, 1370, 2348, 3355, 5344, 6363, 7579, 7616, 8530  
   food 4789
- DDT** *cont.*  
 residues *cont.*  
   foods 5755  
   *Gadus morhua* 1350, 5343  
   groundwater 8583  
   *Halichoerus grypus* 459  
   honey 8572  
   analysis 10634  
   human milk 4312, 6350, 8535, 10566  
   lakes 6383  
   sediment 6380  
   *Larus occidentalis*, eggs 11648  
   man 8522, 8538, 8562, 8564, 11633  
   mangoes 5347  
   marine environment 3380  
   meat 5336  
   milk 6863, 8517, 11628  
   *Mytilus galloprovincialis* 4300  
   *Perna viridis* 10606  
   *Phoca groenlandica* 6354  
   *Phoca vitulina* 5341  
   *Picea abies* 4347, 10968  
   pigs 5316  
   *Pinus* 2700  
   *Pinus sylvestris* 5671  
   *Pipistrellus pipistrellus* 466  
   poultry 4310  
   *Pseudacris crucifer* 9606  
   rivers 2382, 3355, 4327, 4329, 7613  
   runoff 6389  
   salt marshes, sediment 4344  
   sediment 493, 1345, 3377, 5368, 8580, 8590  
   sewage sludge 6381  
   *Sigmodon hispidus* 8540  
   soil 2386, 8594, 9644  
   *Tachypleus tridentatus* 8558  
   vegetables 3517  
   water 2346  
   wildlife 2347  
 resistance  
   *Aphis gossypii* 10552  
   *Helicoverpa armigera* 11970  
   *Helicoverpa zea* 10538  
   *Sitophilus zeamais* 8515  
 toxicity  
   *Artemia salina* 4289  
   *Helicoverpa punctigera* 2274  
   *Hyalella azteca* 1345  
   sorghum 2437  
   *Tribolium castaneum* 3329
- DDVP** (see Dichlorvos)
- Deanolis albizonalis**  
 mangoes  
   Andhra Pradesh 10881  
   yield losses 10881
- Decadarchis atririvis** (see *Erechthias atririvis*)
- Decane**, secretions, *Lincus* 4885
- Decapotoma lunata** (see *Mylabris lunata*)
- (E)-2-Decenal**  
 attractants, *Telenomus* 7502  
 secretions, *Lincus* 4885
- (Z)-3-Decenoic acid**  
 pheromones, *Anthrenus flavipes* 2050  
 synthesis 2050
- (Z)-5-Decenol**, pheromones, *Agrotis segetum* 9657
- (E)-2-Decenyl acetate**, secretions, *Lincus* 4885
- (Z)-5-Decen-1-yl acetate**  
 pheromones, *Agrotis segetum* 2050  
 synthesis 2050
- (Z)-5-Decenyl acetate**  
 mixtures, control, *Agrotis segetum* 9537  
 pheromones  
   *Agrotis* 518  
   *Agrotis segetum* 9657, 11694  
 synthesis 518
- (Z)-5-Decen-1-yl isovalerate**  
 pheromones, *Imbrasia cytharea* 2050  
 synthesis 2050
- (Z)-5-Decenyl**, pheromones, *Agrotis segetum* 9657
- (R,Z)-5-(--)(Dec-1-enyl)oxacyclopentan-2-one**, pheromones, *Anomala* 4935
- (R,Z)-5-(--)(Dec-1-enyl)oxacyclopenta-2-one**  
 pheromones, *Anomala octiescostata* 1891
- (R,Z)-5-(--)(Dec-1-enyl)oxacyclopenta-2-one** *cont.*  
 mixtures  
   attractants  
     *Anomala octiescostata* 2766  
     *Exomala orientalis* 1892  
**Deciduous forests**, invertebrates, Italy 9843
- Decis** (see *Deltamethrin*)
- Decticus albifrons**  
 physiology  
   reproductive organs 5928  
   sense organs 989  
 songs 988
- Decticus verrucivorus**  
 physiology, sense organs 989  
 songs 988
- Decyl acetate**  
 attractants, predatory arthropods 212  
 pheromones, *Frankliniella occidentalis* 212
- Defoliants**, effects, insect pests, cotton 4664
- Deilagaon chrysolepidis**  
 Indonesia 3047  
*Rattus*, interactions 3047
- Deinacrida**  
 biology, life cycle 1076  
*Ulex europaeus*, New Zealand 1076
- Delfin** (see *Bacillus thuringiensis* subsp. *kurstaki*)
- Delia antiqua**  
*Allium*, Shanxi 11805  
 biochemistry, enzymes 5880  
 biology, life cycle 3514  
 control 11805  
 genetics, meiosis 8229  
 Korea Republic 301  
 onions, Iran 3514  
 parasitoids 224, 301, 1092
- Delia brassicae** (see *D. radicum*)
- Delia coarctata**  
 biology 1430  
 cereals, UK 534  
 control 1430  
   chemical control 6438  
 ecology, population dynamics 534  
 morphology 1430  
 wheat, Germany 1430, 6438
- Delia floralis**  
*Brassica*, resistance 4512  
 cabbages  
   Europe 7767  
   Poland 6580  
 control, chemical control 6580  
 pathogens 7767
- Delia platura**  
 asparagus, South Africa 5502  
 biology, phenology 10804  
 cabbages, Slovakia 10804  
 control, chemical control 2789, 2791  
 Hokkaido 9388  
 monitoring, traps 9388  
*Phaseolus vulgaris*, Belgium 2789, 2791  
 soyabeans  
   damage 6533  
   Japan 6533
- Delia radicum**  
 biological control agents, evaluation 7415  
 biology 7771  
   diapause 9317  
   environmental factors 6581  
   phenology 10804, 11807  
*Brassica*, UK 5493  
 cabbages  
   Denmark 621  
   Europe 7767  
   Netherlands 7771  
   Poland 6580  
   Slovakia 10804  
 cauliflowers, Belgium 11807  
 cold resistance 9317  
 control  
   chemical control 6580  
   cultural control 621, 5493, 7771  
 genetics, meiosis 8229  
 kohlrabi 6581  
 monitoring, traps 7503  
 pathogens 7767  
 predators 5493  
 UK 7503
- Delolala guttata**  
*Pharbitis purpurea* 8098



***Deloyala guttata* cont.**

*Pharbitis purpurea* cont.  
North Carolina 1740  
resistance 1740

**Delphacidae**

biology  
dispersal 9104  
life history 8969  
crops, USA 4393  
hosts, *Solenoxypis sauledai* 2715  
monocotyledons, Czech Republic 8969  
parasitoids 938  
predators 4393  
sorghum

Maharashtra 5430  
resistance 5430

***Delphacodes haywardi* (see *Chinomis haywardi*)*****Delphacodes kuscheli***

ecology, population dynamics, models 7648

food plants, Argentina 7648

plant pathogens, transmission 7648

***Delphastus pusillus***

biology, life history 4659  
control

*Aleurothrixus floccosus*, *Citrus* 3555  
*Bemisia argentifolii*, evaluation 4747, 8942

***Bemisia tabaci***

cotton 4659  
greenhouse crops 4759

prey, *Bemisia argentifolii* 8942

***Delphinapterus leucas*, organochlorine compounds, residues 1342*****Delphinus delphis*, insecticides, effects 3379*****Delia conoideus***

*Vitex negundo*

Andhra Pradesh 5684  
pollination 5684

**Deltamethrin**

control

*Alabama argillacea*, cotton 3621  
*Alcidodes sauteri*, *Zanthoxylum* 3655  
*Anthonomus grandis*, cotton 5614  
*Antigastra catalaunalis*, sesame 7874, 11942

**Aphididae**

marrows 1527  
wheat 3429, 7656

*Aproaerema modicella*, groundnuts 8811

*Bemisia tabaci*, *Vigna radiata* 11789

*Ceutorhynchus sulcicollis*, rape 3574

*Chondracris rosea*, field crops 3295

*Coleoptera*, *Plectorhynchus mediteraneus*, commodities 8991

*Conopomorpha cramerella*, cocoa 9942

*Conorhynchus mendicus*, sugarbeet 1617

*Delia coarctata*, wheat 6438

*Diaphorina citri*, oranges 8783

*Euwallacea fornicatus*, tea 10909

insect pests

apples 8753  
cotton 7896  
cowpeas 2497  
pigeon peas 8697  
rice 7713, 9724  
tomatoes 8733  
wheat 11724

*Ips typographus*, *Picea abies* 6795

*Lepidoptera*, *Eucalyptus urophylla* 4695

*Leucinodes orbonalis*, aubergines 10827

*Lipaphis erysimi*, toria 9796

*Lycoriella pleuroti*, fungi 12041

*Lygus*, *Anethum graveolens* 8963

*Metacalfa pruinosa* 11854

fruits 11854

*Neoleucinodes elegantalis*, tomatoes 9811

*Pantomorus cervinus*, *Citrus* 5556

*Phthorimaea operculella*, potatoes 3503, 3510

*Pieris brassicae*, cauliflowers 618

*Scrobipalpula absoluta*, tomatoes 4530

*Sitobion avenae*, wheat 7655, 10697

**Deltamethrin cont.**

control cont.

stored products pests, cereal grains 847

*Tetranychus*, cotton 4653

*Thrips tabaci*, onions 7765

*Zabrus tenebrioides*, cereals 1416

degradation, *Capsicum* 6614

determination 11397

effects

*Aphidius rhopalosiphii* 7565

*Aphis gossypii* 3613

cabbages 3346

Carabidae 7660

carp 8547

*Chrysoperla carnea* 456

*Coccinella septempunctata* 543

*Coleoptera* 7566, 10038

insect pests 8638

*Larinioides scopetarius* 446

*Locusta migratoria* 8503, 9560, 10178

rainbow trout 5337

*Schistocerca gregaria* 10178

*Trichogramma pretiosum* 1337

formulations, analytical methods 10333

mixtures

control, insect pests, cotton 7896

effects, cotton 8839

nontarget effects

beneficial insects 6451, 9675

*Coccinella septempunctata* 10697

environment 2253

Linyphiidae 5407

predatory arthropods 5614

physicochemical properties 2253

residues

analysis 4796

cauliflowers 618

determination 4806

foods, analytical methods 10331

leafy vegetables 3513

maize, commodities 4796

okras 5512

pigs 5747

poultry 8990

synthesis 4236

water, analytical methods 10332

wheat, commodities 5747

resistance

Aphididae 7552

*Aphis gossypii* 8507

*Bracon hebetor* 9613

*Cacopsylla pyri* 4252

*Drosophila melanogaster* 8505

*Eumeta variegata* 10541

*Helicoverpa armigera* 412, 5601, 5609, 10542, 10546

*Heliopsis virescens* 4979

*Helopeltis theivora* 3607

*Plutella xylostella* 10558

*Sitophilus zeamais* 1329, 8515

*Trialeurodes vaporariorum* 11829

*Tribolium castaneum* 432

toxicity

*Aphis gossypii* 6625

*Apis mellifera* 1339, 3361

beneficial insects 4308

*Cheilomenes sexmaculata* 11611

*Cnaphalocrocis medinalis* 11586

*Coleoptera* 4795, 10609

wheat, commodities 11043

*Cylas formicarius* 11601

*Eutectona machaeralis* 1335

*Helicoverpa punctigera* 2274

*Oreochromis niloticus* 8520

*Rhyzopertha dominica* 10037

sorghum 2437

*Spodoptera litura* 6548, 9908

usage 2253

**Deltanet (see Furathiocarb)****De-N-methylchlordimeform, effects,**

*Spodoptera litura* 7033

**Demeton, resistance, *Aphis gossypii* 8507****Demeton-methyl**

control

*Dudua aprobola*, *Litchi chinensis*

5559

*Epilachna vigintioctopunctata*, pota-

toes 5476

*Helicoverpa armigera*, cowpeas 9767

**Demeton-methyl cont.**

control cont.

*Lipaphis erysimi*, Indian mustard 5698

*Phthorimaea operculella*, potatoes 3510

*Thrips tabaci*, onions 2520, 7765

effects, man 8531

resistance, Aphididae 7543

toxicity

*Cheilomenes sexmaculata* 11611

*Cnaphalocrocis medinalis* 11744

**Demeton-O, with demeton-S (see Demeton)****Demeton-O-methyl, with demeton-S-methyl (see Demeton-methyl)****Demeton-S, with demeton-O (see Demeton)****Demeton-S-methyl**

control

*Aleurocanthus woglumi*, mandarins

11894

Aphididae, marrows 1527

*Aphis craccivora*, cowpeas 8705

*Rhopalosiphum maidis*, maize 554

mixtures, effects, cotton 8839

toxicity, *Tetranychus urticae* 9597

with demeton-O-methyl (see Demeton-methyl)

control

*Aleurocanthus woglumi*, mandarins

5557

*Aonidomytilus albus*, cassava 4483

**Demetrius atricapillus**

insecticides

effects 7660

toxicity 4308, 10609

UK 4308

**Demonax transilis**

attractants 6801

Pinopsida, Japan 6801

**Dendranthema, Chromatomyia syngenesiae 221****Dendranthema indicum (see Chrysanthemums)****Dendranthema morifolium (see Chrysanthemums)****Dendrobium, Stethopachys formosa, Australia 10994****Dendrocerus carpenteri**

biology, behaviour 8266, 11425

British Columbia 8266

hosts

Aphidiinae 11425

*Aphidius ervi* 8266

**Dendrocoptes major, Formicidae, interactions 2088****Dendroctonus, Pinus jeffreyi, California 6781****Dendroctonus brevicornis**

aggregation pheromones, inhibitors 11976

biology, behaviour 7936

California 11976

*Ceratocystopsis ranaculosus*, phoresy

8296

monitoring, traps 7936

Pinopsida, California 7936

predators 11976

**Dendroctonus frontalis**

biochemistry

enzymes 3818

lipids 3863

metabolism 9587

biology, dispersal 1685

*Ceratocystopsis ranaculosus*, phoresy

8296

control, chemical control 9985

distribution, North Carolina 7943

fungi, interactions 9347

insecticides

effects 9586

metabolism 9587

residues 3337

toxicity 2703

Pinus

Louisiana 1685

North Carolina 7943

*Pinus taeda* 2703

USA 9985

**Dendroctonus jeffreyi**

fungi, interactions 4735

*Pinus jeffreyi* 4735



- Dendroctonus micans**  
biology, development 5662, 8917  
conifers 5662  
control, biological control 770  
ecology 1697  
*Picea*, UK 770  
*Picea abies*, France 1697, 8917  
quarantine, UK 2248
- Dendroctonus ponderosae**  
aggregation pheromones, inhibitors 11976  
control, chemical control 7951  
fungi, interactions 4725, 4735  
Oregon 11976  
*Pinus* 4735  
*Pinus albicaulis*, Montana 762  
*Pinus contorta*  
British Columbia 7951, 10962  
Canada 4725  
*Pinus ponderosa*, Colorado 12013  
plant pathogens, transmission 10962  
predators 11976
- Dendroctonus pseudotsugae**  
attractants 9540  
control, trapping 8925  
Oregon 9540  
plant pathogens 8995  
predators 9540  
*Pseudotsuga menziesii*  
Oregon 8925  
wood, Idaho 8995
- Dendroctonus punctatus**  
biology 9994  
*Picea engelmannii* 9994  
*Picea glauca*, North America 9994
- Dendroctonus rufipennis**  
biochemistry, metabolism 9587  
forest trees  
Colorado 3656  
outbreaks 3656  
forests  
Alaska 8897  
damage 8897  
insecticides  
effects 9586  
metabolism 9587  
monoterpenes, toxicity 12005  
*Picea glauca*, Alaska 771  
*Picea × lutzii*  
Alaska 2707  
damage 2707
- Dendroctonus simplex**, monoterpenes, toxicity 12005
- Dendrocyna viduata**, insecticides, residues 11610
- Dendrolimus punctatus**  
biology, diapause 8279  
China 1219, 8279  
ecology, distribution 6788  
forest trees, Hunan 9969  
parasitoids 1219, 7354, 9969  
*Pinus*, China 6788  
sampling 6788  
Zhejiang 7354
- Dendrolimus superans sibiricus**  
biology, life cycle 780  
*Larix*  
outbreaks 780  
Russia 780
- Dendrolimus tabulaeformis**, *Bacillus thuringiensis*, toxins, toxicity 3255
- Dendropanax arboreus**, *Lamponius portoricensis*, Puerto Rico 3686
- Dendrosoter jammue**  
*Dalbergia sissoo*, habitats, India 5158  
hosts, *Sinoxylon anale* 5158
- Dendrosoter protuberans**  
biology, environmental factors 2078  
hosts  
*Hylesinus varius* 4626  
Scolytidae 2078  
olives, orchards, Spain 2078, 4626  
rearing techniques 2078
- Denmark** (see also Greenland)  
*Anabolia nervosa* 734  
apples, *Panonychus ulmi* 2560  
barley, fields, arthropods 5712  
cabbages  
*Delia* 7767  
fields, *Cotesia glomerata* 620  
insect pests 621  
*Pieris brassicae* 620, 7777
- Denmark cont.**  
carrots, *Psila rosae* 606  
cereals  
Diptera 2409  
fields, Coleoptera 11715  
Coleoptera 7264  
Gastropoda 2151  
grasses, *Oscinella* 5452  
*Hedera helix*, *Siphoninus immaculatus* 1143  
insecticides, residues 9631  
insects 4081  
Lepidoptera 1152, 5057  
Opiliones 1142  
*Oulema duftschmidi* 900  
*Oulema melanopus* 900  
*Picea abies*, Scolytidae 8924  
*Pinus sylvestris*, pesticide residues 5671  
plant protection, reports 10060  
rape  
*Dasineura brassicae* 3573  
parasitoids 2592  
*Siphoninus immaculatus* 1143  
vegetables, fields, Aphididae 622  
wild plants, pollinators 8967
- Densonucleosis viresus**, hosts, *Bombyx mori* 9467, 11497
- Densovirus**, hosts, *Bombyx mori* 11501
- Deois flavipicta**  
biology  
development 4455  
environmental factors 1464  
*Brachiaria*  
Brazil 7721  
Minas Gerais 1464  
resistance 7721  
*Brachiaria decumbens*, Mato Grosso do Sul 4455  
control 7721  
cultural control 3480  
pastures, Brazil 3480
- Deois incompleta**  
*Brachiaria*  
Brazil 7721  
resistance 7721  
control 7721  
cultural control 3480  
pastures, Brazil 3480
- Deois schach**  
*Brachiaria*  
Brazil 7721  
resistance 7721  
control 7721  
cultural control 3480  
pastures, Brazil 3480
- Deporaus glastinus**  
biology, life cycle 3638  
*Quercus wislizenii*, California 3638
- Deporaus insularis**  
forest trees, Japan 8084  
taxonomy, new species 8084
- Deporaus marginellus**, mangoes, West Bengal 5558
- Deporaus septemtrionalis**  
*Prunus yedoensis*, Japan 8084  
taxonomy, new species 8084
- Deporaus tigris**  
*Ligustrum*, Japan 8084  
taxonomy, new species 8084
- Depressaria pastinacella**  
biochemistry, metabolism 7051  
diets 7051  
*Pastinaca sativa*, Illinois 2743
- Deraeocorinae**, taxonomy 11105
- Deraeocoris**  
pears, orchards, Italy 2562  
prey, *Cacopsylla pyri* 2562
- Derancistrus**, taxonomy 6965
- Dercetina**  
*Acacia mangium*  
damage 6766  
Philippines 6766
- Dermaptera**  
apples, orchards, China 8754  
attractants 1650  
cowpeas, fields, Kenya 6417  
ecology  
habitats 8754  
population dynamics 6417  
evolution 10120  
Germany 1650
- Dermaptera cont.**  
Guizhou 6095  
morphology 2873  
phylogeny 2873  
prey, *Megalurothrips sjostedti* 6417  
Washington 3939
- Dermatophagoides farinae**, predators 5173
- Dermestes**, genetics, gene expression 1012
- Dermestes ater**  
control, chemical control 8991  
*Plectorhynchus mediterraneus*, commodities, Senegal 8991
- Dermestes caninus**, taxonomy 5796
- Dermestes friscii**  
control, chemical control 8991  
*Plectorhynchus mediterraneus*, commodities, Senegal 8991
- Dermestes haemorrhoidalis**, stored products, China 11037
- Dermestes lardarius**  
ecology, population dynamics 9006  
feeds, stores, Manitoba 9006
- Dermestes maculatus**  
control, chemical control 8991  
fishes, commodities 8993  
morphology  
digestive system 5830  
excretory system 5830  
*Plectorhynchus mediterraneus*, commodities, Senegal 8991
- Dermestes rattus**, taxonomy 5796
- Dermestes rattus tristis**, taxonomy 5796
- Dermestes sardous**  
distribution, California 5796  
taxonomy 5796
- Deroceras agreste**, morphology 9457
- Deroceras caruanae** (see *D. panormitanum*)
- Deroceras laeve**  
biology 1242  
control 1242  
Poland 1242
- Deroceras panormitanum**, pathogens 350
- Deroceras reticulatum**  
biological control agents, evaluation 4136  
biology, behaviour 4405  
control 10807  
biological control 546, 4405, 10810  
field crops, UK 10807  
maize, Pennsylvania 6454  
molluscicides, effects 11600  
pathogens 350, 4136, 4405  
pesticides, toxicity 11723  
predators 223, 3050  
monitoring 9390  
wheat  
seeds 11723  
UK 546, 4405
- Derostenus agromyzae**, taxonomy, to *Neochrysocharis* 8090
- Derostenus arizonensis**, taxonomy, to *Neochrysocharis* 8090
- Derris**  
effects, *Chauliops fallax* 8500  
toxicity, Coleoptera 4795
- Derris elliptica**  
extracts  
control, *Pomacea* 2444  
toxicity, *Pomacea* 2444
- Descurainia sophia**, *Plutella xylostella*, China 3420
- Deserts**  
arthropods, USSR 2012  
Isoptera, New Mexico 9452  
Tenebrionidae, Namibia 11305
- Desmanthus illinoensis**, *Bradysia*, damage 8670
- Desmel** (see Propiconazole)
- Desmella anceps**  
*Pteronia*  
damage 8685  
South Africa 8685
- Destruxin E**, toxicity, *Empoasca vitis* 604
- Destruxins**, effects, *Galleria mellonella* 3339
- Detergents**  
control, *Lymantria dispar*, forest trees 2652  
toxicity, *Tetranychus* 2392
- Detritus**, *Friesia*, Mexico 3759
- Deudorix isocrates**  
control, chemical control 7843



**Deudorix isocrates** *cont.*

- guavas
- resistance 11913
- Uttar Pradesh 11913
- mandarins, India 7843

**Developing Countries**

- insecticides, usage 2269
- pesticides, economic impact 416

**Development**, pesticides, Europe 10530**Di-Syston** (see Disulfoton)**Diabolocatantops axillaris**

- ectoparasites 27
- Pennisetum americanum*
- Mali 5433
- yield losses 5433

**Diabolocatantops pinguis**

- groundnuts 11188
- physiology, bioenergetics 11188

**Diabrotica**

- Cucurbita texana*, damage 6619
- maize, resistance 6469
- pest control, USA 2316

**Diabrotica balteata**

- biological control agents, evaluation 5482
- biology 1479
- control

- biological control 5482
- chemical control 5482, 8695

- pathogens 5482

- Phaseolus*, Cuba 1479

- Phaseolus vulgaris*, Cuba 8695

- sweet potatoes, South Carolina 5482

**Diabrotica barberi**

- biology
- competition 1438
- environmental factors 2423
- control, cultural control 4417
- Diabrotica virgifera*, interactions 1440
- food plants, South Dakota 1596
- maize 1438, 1440, 11319
- damage 4417
- Illinois 4425
- Ohio 2433
- Ontario 4417
- South Dakota 2423, 6456
- sampling 4425
- volatile compounds, attractants 6456
- weeds, effects 2433

**Diabrotica longicornis**

- ecology, population dynamics 11357
- Mexico 11357

**Diabrotica speciosa**

- Argentina 7479
- Passiflora* 10892
- pathogens 7479, 8332
- physiology, reproduction 4899
- plant pathogens, transmission 10892
- rearing techniques 8332

**Diabrotica tibialis**

- ecology, population dynamics 11357
- Mexico 11357

**Diabrotica undecimpunctata howardi**

- baits, effects 4536
- biochemistry, digestive system 3839
- biological control agents, evaluation 5482
- control
- biological control 5482
- chemical control 4519, 5482
- Cucurbitaceae 4536
- ecology, population dynamics 11357
- fruit vegetables, Kentucky 4519
- insecticides, toxicity 3338
- maize
- damage 8651
- Georgia 8651
- Mexico 11357
- monoterpenoids, toxicity 6320
- pathogens 5482
- Phaseolus vulgaris* 7740
- plant extracts, effects 3839
- plant pathogens, transmission 7740
- sweet potatoes, South Carolina 5482

**Diabrotica virgifera**

- Diabrotica barberi*, interactions 1440
- distribution, Yugoslavia 6466
- maize 1440
- damage 6466
- Yugoslavia 6466
- Tripsacum dactyloides* × *Zea diploperennis*, resistance 2408

**Diabrotica virgifera virgifera**

- baits, effects 4536
- biochemistry
- digestive system 3839
- senses 3841
- biology
- behaviour 7681, 9705, 11319
- competition 1438
- life cycle 6465
- control 10713
- chemical control 9705
- cultural control 4417
- Cucurbitaceae 4536
- gums, effects 6107
- insecticides, toxicity 4266
- maize 1438, 11319
- Colorado 9705
- damage 4417
- Illinois 4425
- Missouri 2422
- New York 4421
- Ohio 2433
- Ontario 4417
- Pennsylvania 10713
- resistance 2422
- South Dakota 4419, 9701
- Yugoslavia 6465
- physiology
- feeding 10681
- taste 9197
- plant extracts, effects 3839, 7681, 9705
- rearing techniques 6107
- sampling 4425
- soil compaction, effects 4419
- soil water, effects 9701
- weeds, effects 2433

**Diabrotica virgifera zea**

- biology 6467
- control, chemical control 8648
- insecticides, toxicity 8647
- maize, Texas 6467, 8648

**Diacamma**

- biology, behaviour 1192
- Japan 1192

**Diachasma**, taxonomy 1812**Diachasma hispanicum**

- hosts, *Pegomya cunicularia* 2612
- sugarbeet, fields, Spain 2612

**Diachasmimorpha longicaudata** (see *Bios-teres longicaudatus*)**Diachasmimorpha tryoni**

- biology, dispersal 4109
- habitats, Hawaii 4109
- Hawaii 1216, 7521
- hosts

- Bactrocera dorsalis* 1216

- Ceratitis capitata* 7521

- insecticides, effects 7521

**Diacrisia obliqua** (see *Spilarcia obliqua*)**Diacrisia sannio**, pyrrolizidine alkaloids,

- metabolism 4928

**Diadegma**

- hosts, *Comostolopsis germana* 823
- New South Wales 823

**Diadegma acuta**, hosts, *Platyptilia*

- carduidactyla* 7525

**Diadegma amphipoeae**

- hosts, insect pests 9063
- Japan 9063

- taxonomy, new species 9063

**Diadegma armillata** (see *D. armillatum*)**Diadegma armillatum**

- hedges, UK 6748
- hosts, *Yponomeuta padellus* 6748

**Diadegma eucrophaga** (see *D.*

- semiclausum*)

**Diadegma hiraii**

- hosts, *Leguminivora glycinivorella* 9063
- Japan 9063

- taxonomy, new species 9063

**Diadegma insulare**

- control, *Plutella xylostella* 5495
- hosts, *Plutella xylostella* 4511

- insecticides, effects 4511

- kale, fields, South Carolina 4511

**Diadegma mollipla**

- hosts, *Phthorimaea operculella* 7755
- potatoes, fields, Yemen 7755

**Diadegma niponica**

- crops, habitats, Hokkaido 6588
- hosts, *Plutella xylostella* 6588

**Diadegma niponica** *cont.*

- taxonomy, new species 6588

**Diadegma semiclausum**

- biology, environmental factors 2126
- cabbages, habitats, Taiwan 2525
- hosts, *Plutella xylostella* 996, 2126, 2525, 4104, 9802

- insecticides

- effects 2525, 4104

- toxicity, models 9802

- Malaysia 4104

**Diadegma terebrans**

- hosts, *Ostrinia nubilalis* 6464
- maize, fields, Yugoslavia 6464

**Diadiplosis koebele**

- fruits, habitats, New Zealand 640
- prey, *Pseudococcus* 640

**Diadromus collaris**

- biology, behaviour 2238
- hosts, Lepidoptera 2238

**Diadromus pulchellus**

- biology
- behaviour 2238
- reproduction 9135
- diets 2238
- hosts, Lepidoptera 2238
- physiology, reproduction 5170

**Diaeretiella**

- insecticides, resistance 602
- potatoes, fields, Costa Rica 602

**Diaeretiella rapae**

- biology 6183
- behaviour 6177, 7333, 9674
- broccoli, habitats, California 6587
- cereals, fields, Syria 3426
- control, *Diuraphis noxia*, wheat 11725
- distribution, Washington 8368
- Diuraphis noxia*, interactions 6177
- ecology, population dynamics 4506
- genetics, mitochondrial DNA 5975
- hosts

- Aphididae 4510, 6183, 6587, 7333, 9674

- Brevicoryne brassicae* 1104

- Diuraphis noxia* 6177, 8368, 11717

- kale, fields, Minas Gerais 4506

- Papaver somniferum*, fields, Madhya Pradesh 8828

- parasitoids 1104, 3426

- prey, *Myzus persicae* 8828

- wheat

- fields

- Colorado 11725

- France 11717

**Diaeretus rapae** (see *Diaeretiella rapae*)**Diafenthionon**

- control

- Bemisia tabaci*

- cotton 5612

- tomatoes 8742

- Tetranychus cinnabarinus*, greenhouse crops 10816

- derivatives, effects, *Tetranychus* 11599

- effects, *Tetranychus urticae* 1710

- mode of action 3313

- resistance, Aleyrodidae 9956

- toxicity

- Bemisia tabaci* 6739

- locusts 6315

- Plutella xylostella* 11577

**Diaglyptidea**

- distribution, Maharashtra 11093

- taxonomy 11093

**Dialeurodes citri**

- biology 7205

- life cycle 6685

**Citrus**

- Spain 6685

- Turkey 3561

- control, chemical control 3561

- ecology 7205

- Parabemisia myricae*, interactions 7205

- predators 1230

- Turkey 7205

**Dialeurodes citrifolii**

- oranges, Rio de Janeiro 4586

- Orthezia praelonga*, biological competi-

- tion 4586

**Dialifor** (see *Dialifos*)

- Dialifos**, effects, *Hydra viridissima* 11644



**O,O-Dialkyl S-propargyl phosphorothioates**, effects, *Helicoverpa armigera* 4253

**Dianemobius fascipes**  
Asia 1014  
biology, diapause 1014  
genetics 1014

**Dianemobius nigrofasciatus**  
Asia 1014  
biology, diapause 1014  
genetics 1014

**Dianthus caryophyllus** (see Carnations)

**Diaphania hyalinata**  
control 11835  
biological control 9824  
*Cucurbita pepo*, Florida 11835  
parasitoids 4105  
squashes, Florida 9824

**Diaphania nitidalis**  
control 11835  
biological control 6616  
*Cucurbita pepo*, Florida 11835  
Cucurbitaceae, Florida 6616  
parasitoids 4105  
plant extracts, effects 5509

**Diaphania perspectalis**  
biology, life history 3027  
Shanghai 3027

**Diaphania pyloalis**, parasitoids 9094

**Diaphorina citri**  
biology 5386  
life history 9886  
*Citrus*, Fujian 9886  
control 5386  
chemical control 8783  
crops, Middle East 5386  
insecticides, toxicity 9886  
oranges, Haryana 8783  
parasitoids 2105, 3216, 10336

**Diaprepes abbreviatus**  
bibliographies 11947

**Citrus**  
damage 9888  
Florida 11896  
varietal reactions 9885  
control, chemical control 11896  
sugarcane 11947

**Diapriidae**, morphology 6991

**Diapromorpha pallens**, mangoes, West Bengal 5558

**Diaspididae**  
apples, Switzerland 1540, 5528  
control, biological control 6695, 7350  
insecticides, toxicity 7532  
kiwifruits  
damage 6691  
New Zealand 6691  
morphology 7532  
ornamental conifers  
Hungary 8901  
varietal susceptibility 8901  
ornamental plants, Sicily 12023  
parasitoids 7283, 7532  
Philippines 4860  
rambutans, yield losses 1576  
Russia 4837  
Shandong 8317  
taxonomy 4837, 4860  
new taxa 5808

**Diaspis echinocacti**  
*Opuntia*, Queensland 4847  
predators 4847

**Diastephanus**  
coffee, habitats, Thailand 4644  
hosts, *Xylotrechus quadripes* 4644

**Diatomaceous earth**, control, insect pests, groundnuts, commodities 2780

**Diatomite**  
control, Scarabacidae, strawberries 9858  
effects, *Coptotermes formosanus* 2257

**Diatraea**, parasitoids 11131

**Diatraea grandiosella**  
genetics 11275  
maize  
Mexico 3444  
resistance 3444, 4422, 5415, 9711, 11729  
North America 11275  
physiology  
fat body 3823  
nutrition 8145

**Diatraea grandiosella** cont.  
*Zea*  
Mexico 7683  
resistance 7683

**Diatraea lineolata**  
biology, environmental factors 9704  
maize, Mexico 9704  
parasitoids 11131

**Diatraea saccharalis**  
biology 3938  
environmental factors 9704  
control, biological control 1610, 8817  
insecticides, pathogenicity 6238  
maize, Mexico 9704  
parasitoids 3808, 3938, 6187, 7247, 8814  
pathogens 5232  
rice  
damage 10739  
Puerto Rico 10739  
sugarcane 8814  
Cuba 8817  
resistance 2801  
Sao Paulo 1610

**Diatraeophaga**, taxonomy, synonyms, *Lydella* 4827

**Diazinon**  
control  
*Anarsia lineatella*, stone fruits 3539  
*Aulacophora indica*, melons 1582  
*Chlorops oryzae*, rice 8661  
*Dasineura mali*, apples 6638  
*Formica exsectoides* 580  
*Holotrichia serrata*, *Tectona grandis* 8891  
insect pests, raspberries 4570  
*Mayetiola destructor*, wheat 6447  
*Otiorynchus*, strawberries 6663  
*Otiorynchus sulcatus*, ornamental woody plants 6812  
*Psila rosae*, carrots 606  
Pyralidae, sugarcane 3588  
*Tetranychus*, cotton 4653  
degradation  
orchards, soil 2365  
soil 497  
water 3392, 4231, 9602  
effects  
*Dugesia tigrina* 4286  
European eels 2333  
*Larinioides scopetarius* 446  
man 8531  
*Stethopachys formosa* 12039  
formulations 2261, 2384  
water hardness, effects 3324  
metabolism, European eels 7559  
mixtures, resistance, *Hypothenemus hampei* 5293  
movement, soil types 4337  
nontarget effects  
Araneae 6169  
kiwifruits 4600  
*Metapenaeus ensis* 5320  
*Porcellionides pruinosus*, assessment 11605  
soil flora 489  
penetration, clothing 4070  
poisoning, fowls 2313  
residues  
air 8578  
determination 8578  
commodities 10577  
determination 845, 3682  
environment, determination 2073  
kiwifruits 9901  
lawns and turf 10635  
mushrooms 3682  
determination 3682  
olives, commodities 12078  
rice, commodities 845  
sewage sludge 4334  
water 10633, 11657  
determination 10633  
resistance  
*Aphis gossypii* 10552  
*Frankliniella occidentalis* 396, 441  
Lepidoptera 6339  
*Nephotettix cincticeps* 7539  
*Nilaparvata lugens* 4436  
*Sogatella furcifera* 4437  
toxicity  
*Apis mellifera* 474, 11619

**Diazinon** cont.  
toxicity cont.  
Crustacea 6373  
*Cylas formicarius* 11601  
*Daphnia magna* 4305  
Heteroptera 8492  
insect pests 7535  
*Maladera matrida* 8511  
*Penaeus japonicus* 9625  
pigeons 10589  
rats 10573  
*Steinernema carpocapsae* 7583

**1,2-Dibenzoyl-1-tert-butylhydrazide**, effects, *Spodoptera exigua* 691

**1,2-Dibenzoyl-1-tert-butylhydrazine** effects  
*Apanteles kariyai* 1213  
*Dysdercus koenigii* 4348  
insects 11683  
Lepidoptera, cell lines 9554  
*Mythimna separata* 1213  
*Spodoptera litura* 11682  
toxicity, *Peridroma saucia* 1389

**Dibrachys**  
hosts, *Nematus oligospilus* 10948  
*Salix*, habitats, Southern Africa 10948

**1,2-Dibromoethane** (see Ethylene dibromide)

**Dicerca**, taxonomy 3757

**Dicerca aenea**, taxonomy 3757

**Diceroprocta semicincta**, biochemistry, peptides 11226

**Dichelomyia oenophila** (see *Janetiella oenophila*)

**Dichelops melacanthus**, maize, Mato Grosso do Sul 8644

**Dichlofluanid**, nontarget effects, *Drosophila melanogaster* 1348

**1,2-Dichloropropane**, effects, rodents 496

**Dichlorvos**  
aerosols, sampling 4270  
control  
Acari, edible fungi 12050  
*Aleurolobus barodensis*, sugarcane 1613  
Aleyrodidae 10472  
*Aoraia scutellaris*, grapes 9861  
*Apriona germarii*, mulberries 10865  
Delphacidae, rice 3466  
*Diaphorina citri*, oranges 8783  
*Endoclitia jianglingensis*, *Boehmeria nivea* 11973  
*Epilachna vigintioctopunctata*, potatoes 5476  
*Etiella zinckenella*, *Ginkgo biloba* 11975  
Lepidoptera, cabbages 1509  
*Leucinodes orbonalis*, aubergines 7794  
*Mythimna separata*  
rice 2467  
wheat 538  
*Nematus frenalisi*, *Salix* 11993  
*Neothoracaphis yanonis*, forest trees 3653  
*Pieris brassicae*, cauliflowers 618  
degradation, cyanobacteria 2309  
detection 2271  
effects  
fishes 8519  
*Leptomastix dactylopii* 5340  
hydrolysis, mercury 4339  
interactions, crops 11821  
mixtures  
control  
*Pseudaulacaspis pentagona*, tea 11957  
*Steneotarsonemus pinki*, rice 9720  
nontarget effects, *Bellamyia dissimilis* 5321  
oxidation 11573  
repellents, Coleoptera 2785  
residues  
buckwheat, commodities 844  
cauliflowers 618  
determination 494, 3682  
man 465, 494  
mushrooms 3682  
determination 3682



**Dichlorvos cont.**

## resistance

*Aphis gossypii* 10552, 10914  
*Frankliniella occidentalis* 6275  
*Leptinotarsa decemlineata* 6325  
*Plutella xylostella* 10206, 10548, 10558

## toxicity

*Artemia salina* 4289  
*Hypsipyla robusta* 8890  
*Plutella xylostella* 10669  
*Steinernema carpocapsae* 7583

**Dichocrocis punctiferalis** (see *Conogethes punctiferalis*)**Dichomeris**

Asteraceae, USA 12063  
 biology, life cycle 12063  
 Korea Republic 11119  
 taxonomy 11119

**Dichomeris bilobella**

Asteraceae, USA 12063  
 biology, life cycle 12063

**Dichomeris lespedezae**

*Lepedeza*, Korea Republic 11119  
 taxonomy, new species 11119

**Dichomeris leuconotella**

Asteraceae, USA 12063  
 biology, life cycle 12063

**Dichomeris ochripalpella**

Asteraceae, USA 12063  
 biology, life cycle 12063

**Dichroplus bergi**, physiology, development 1870**Dichroplus elongatus**, biological control agents, evaluation 4213**Dichroplus pratensis**

biological control agents, evaluation 4213  
 genetics, chromosomes 2976, 3877

**Dichrostachys cinerea**, insects, Delhi 10042**Dicladispa armigera**

control, chemical control 7707  
 parasitoids 7707  
 pathogens 5226  
 rice, Andhra Pradesh 7707

**Dicofol**

## control

*Aceria jasmini*, *Jasminum auriculatum* 1736  
 arthropod pests  
 jute 5619  
 strawberries 11868  
*Brevipalpus*, mandarins 2578  
*Eriophyes cernuus*, *Ziziphus mauritiana* 3567  
*Tetranychus ludeni*, okras 5513

## effects

*Chrysoperla carnea* 456  
*Larinioides scopetarius* 446  
*Tetranychus urticae* 4271

## formulations 4271, 6294

## mixtures

effects, *Chrysoperla carnea* 456  
 toxicity, *Tetranychus urticae* 7534

## nontarget effects

*Macrolophus caliginosus* 8378  
 predatory insects 1633

## residues

apricots 8563  
 commodities 8563  
 determination 2358  
 environment 10639  
 kiwifruits 9901  
 leafy vegetables 3513  
 nontarget organisms 11614  
 resistance, *Eutetranychus banksi* 3336  
 toxicity, *Tetranychus urticae* 7534  
 with bifenthrin, control, arthropod pests, grapes 1557

**Dicorynia guianensis**

## insect pests

damage 6771  
 French Guiana 6771

**Dicrodiplosis**

prey, *Atherigona soccata* 2440  
 sorghum, fields, Burkina Faso 2440

**Dicrotophos**

## control

*Aphis gossypii*, cotton 9959-9960  
 Pyralidae, sugarcane 3588

## toxicity

*Aphis gossypii* 2401

**Dicrotophos cont.**

## toxicity cont.

*Beauveria bassiana* 5247  
 Braconidae 10587

**Dicrurus adsimilis**, prey, *Holotrichia* 4029**Dicruvasates**, taxonomy, new genus 10949**Dicruvasates tamaricis**

*Tamarix nilotica*  
 Egypt 10949  
 galls 10949  
 taxonomy, new species 10949

**Dictionaries**, plants, natural compounds 885**Dictyna felis**, biology, development 3208**Dictynidae**, checklists, Uruguay 8321**Dictyoptera**

Algeria 9362  
 morphology 2873  
 phylogeny 2873  
*Pinus rigida*, forests, New Jersey 9984

**Dictyostelium discoideum**, insecticides, effects 470, 4280, 5312**Dictyuchus monosporus**, insecticides, effects 7591**Dicyphus errans**

biology 11447  
 greenhouses, habitats, Mediterranean Region 11447  
 morphology 11447  
 prey, Aleyrodidae 11447  
 tomatoes, fields, Spain 7788

**Dicyphus rhododendri**

biology, phenology 1711  
*Rhododendron*, habitats, Georgia 1711

**Dicyphus tamaninii**, tomatoes, fields, Spain 7788**Dideopsis aegrota**

biology, life history 8824  
 ecology, population dynamics 8824  
 prey, *Toxoptera aurantii* 8824  
 tea, plantations, India 8824

**Didesmococcus unifasciatus**

biology 5386  
 control 5386  
 crops, Middle East 5386

**Didia**

*Bauhinia variegata*, Pakistan 8850  
 parasitoids 8850

**Didymopanax vinosum**, extracts, effects,

*Atta sexdens* 7999

**Dieldrin**

degradation, soil 8593  
 effects

Amphipoda 3377  
 aquatic organisms 2302  
 birds 8550  
*Chelydra serpentina* 9598  
*Clostridium perfringens* 10519  
*Locusta* 1321  
 rats 10592

intake, man 10576  
 metabolism, *Trogoderma granarium* 1322

## nontarget effects

aquatic animals 2296  
*Eudrilus eugeniae* 10613  
*Mergus serrator* 8537  
*Pandion haliaetus* 2290

## residues 4311

analysis 471, 3343  
 analytical methods 7573  
 aquatic organisms 471, 11647  
 birds 4311, 7589, 10602  
 cattle, models 4450  
 cereals, commodities 6882  
 cod liver oil 3367  
 determination 462  
 environment 10654  
 models 4450  
 extraction 4336  
 fisheries 11609  
 fishes 1370, 3343, 6363, 6368, 7616  
 fodder plants 578  
 food 4789  
*Gadus morhua* 5343  
 honey 8572  
 analysis 10634  
 human milk 10566  
 lakes, sediment 6380  
*Lutra lutra* 5324  
 milk 6863  
 onions, commodities 7573  
*Perna viridis* 10606

**Dieldrin cont.**

## residues cont.

pigs 5316  
*Pipistrellus pipistrellus* 466  
*Pseudacris crucifer* 9606  
 residential areas, monitoring 255  
 rivers 2382  
 salt marshes, sediment 4344  
 sediment 493, 3377, 5368, 10653  
 sewage sludge 6381  
*Sigmodon hispidus* 8540  
 soil 10637  
*Sterna caspia* 1346  
 sugarcane 11946  
 water 2346, 11674  
 resistance, *Hypothenemus hampei* 5293  
 toxicity  
*Apis mellifera* 3361  
 aquatic organisms 10653  
*Artemia salina* 4289  
*Oreochromis niloticus* 8520

**Dienerella filum**

## brewers' yeast

Czech Republic 12076  
 damage 12076

**α-(Diethoxyphosphinoximino)**

dicyclopropylmethane, toxicity, rats 3364

**2-(2,6-Diethylamino)-2-imidazoline**,

effects, *Spodoptera litura* 7033

**O,O-Diethyl-O-phenyl phosphorothionate**,

synergism 8507

**Diethyltoluamide**, control, *Pyemotes tritici* 3193**Diflubenzuron**

## control

*Acromyrmex heyeri* 4216  
*Helicoverpa armigera*, chickpeas 5465  
 insect pests, tree fruits 1391  
 Lepidoptera, cotton 1634  
*Locusta migratoria migratorioides* 7324  
*Lycoriella mali*, mushrooms 813  
*Lymantaria dispar* 7594  
 forest trees 4679  
 parks 4684  
*Scirpophaga incertulas*, rice 7491  
*Scrobipalpula absoluta*, tomatoes 2535

*Spodoptera frugiperda*, maize 10707

determination, water 5292

## effects

*Apis* 8570  
 aquatic organisms 2302  
*Atta sexdens* 1188  
 beneficial organisms 2335  
*Calosoma alternans* 7569  
 Coccinellidae 444  
*Crocidolomia binotalis* 4254  
*Gryllus bimaculatus* 8167  
*Helicoverpa armigera* 2256  
*Hydra viridissima* 11644  
 insects 11591  
*Nomuraea rileyi* 4144  
*Peromyscus leucopus* 9605  
*Podisus maculiventris* 7581  
*Spodoptera frugiperda* 10707  
*Spodoptera litura* 7895, 10535  
*Tenebrio molitor* 8601  
*Trichogramma pretiosum* 7570  
 Vespidae 7911

formulations 6337

## mixtures

control, *Aleurocanthus woglumi*, mandarins 5557

*Spodoptera frugiperda*, toxicity 2272

movement, ponds 8585

## nontarget effects

birds 7594

*Lepomis macrochirus* 11625

residues, *Quercus* 10941

## resistance

*Cydia pomonella* 6646  
*Plutella xylostella* 5948

## toxicity

*Alphitobius diaperinus* 10537  
*Atta sexdens* 4216  
 Coleoptera 1332  
*Eulophus pennicornis* 9614  
*Helicoverpa armigera* 11576



- Diflubenzuron** *cont.*  
toxicity *cont.*  
insect pests 7536-7537  
*Plutella xylostella* 10669  
*Spodoptera exigua* 2276  
*Tenebrio molitor* 2281, 11595
- Diflumuron**, toxicity, *Plutella xylostella* 10669
- 2,6-Difluoro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]benzamide**, toxicity, *Alphitobius diaperinus* 10537
- Digitaria sanguinalis**  
*Listronotus bonariensis*, resistance 6852  
*Poanes melane* 5402
- Diglyphus**  
hosts, *Liriomyza* 4516  
lettuces, fields, Arizona 4516
- Diglyphus begini**  
genetics, DNA amplification 9381  
hosts, *Liriomyza* 9576  
insecticides, resistance 9576
- Diglyphus intermedius**  
hosts, *Liriomyza trifolii* 7577  
insecticides, toxicity 7577
- Diglyphus isaea**  
biology 2212, 11828  
control  
Agromyzidae, horticultural crops 2212  
*Liriomyza bryoniae*, greenhouse crops 11828  
*Lyriomyza trifolii* 2532  
hosts, *Chromatomyia syngenesiae* 221  
pesticides, effects 2212
- Diglyphus pallidus**, genetics, DNA, analysis 9381
- Diglyphus websteri**, hosts, *Phytoliriomyza jaccarandae* 10982
- Dihammus cervinus** (see *Acalolepta cervina*)
- 4,5-Dihydro-6-methyl-4-(3-pyridyl-methyleneamino)-1,2,4-triazin-3(2H)-one**, toxicity, *Encarsia formosa* 7597
- 2-(4-Bromophenyl)-4-(2-fluoroethyl)-5,6-dihydro-4H-1,3,4-oxadiazine hydrochloride**, synthesis 4237
- trans-2-(3-(3,4-Dihydroxyphenylpropenoyl)amino)-3,5-dihydroxybenzoic acid**, repellents, *Pieris brassicae* 3417
- 2-N,N-Diisobutyl amido-6-chloro-4H-1,3,2-benzodioxaphosphorin-2-sulphidel**, effects, onions 6572
- Diisopropylfluorophosphate**, effects, mice 2337
- Dill** (see *Anethum graveolens*)
- Diloboderus aderus**  
Rio Grande do Sul 7246  
tillage, effects 7246
- Diloponis fuerschi**  
prey, Hemiptera 674  
taxonomy, new species 674  
woody plants, habitats, Iran 674
- Dimecron** (see Phosphamidon)
- Dimehypo** (see Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt; Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt)  
movement, soil 4332  
photolysis 4332  
toxicity, *Chilo suppressalis* 5295  
toxicity, *Plutella xylostella* 11577
- Dimethipin**, control, *Bemisia tabaci*, cotton 3615
- Dimethoate**  
control  
*Acanthophilus helianthi*, safflower 11926  
*Aceria jasmini*, *Jasminum auriculatum* 1736  
*Aleurocanthus woglumi*, mandarins 5557, 7844  
*Aleurolobus barodensis*, sugarcane 1613  
*Amrasca biguttula biguttula*, okras 5514  
*Amrasca devastans*, cotton 5611, 8833  
*Antigastra catalaunalis*, sesame 7874  
*Aonidomytilus albus*, cassava 4483  
Aphididae, wheat 545  
arthropod pests, root crops 4483
- Dimethoate** *cont.*  
control *cont.*  
*Bactrocera oleae*, olives 8808, 11930  
*Bemisia tabaci*  
Capsicum 10830  
*Vigna radiata* 11789  
*Dasineura mali*, apples 6638  
*Diaphorina citri*, oranges 8783  
*Empoasca kraemeri*, cowpeas 1485  
*Gibberifera simplicia glaciata*, *Populus ciliata* 6759  
*Helicoverpa armigera*, cowpeas 9767  
*Helopeltis antonii*, cashews 5569  
insect pests :  
apples 8753  
cabbages 11815  
cotton 1631  
cowpeas 1488  
peas 1480  
pigeon peas 8697  
*Vigna radiata* 11786  
*Leucinodes orbonalis*, aubergines 7794  
*Lipaphis erysimi*  
Indian mustard 5497, 5698  
radishes 5485  
toria 9796  
*Lygus lucorum*, tea 7881  
*Mayetiola destructor*, wheat 6447  
*Metcalfa pruinosa*, fruits 11854  
*Perileucopiera coffeella*, coffee 1622  
*Rhagoletis pomonella*, apples 9841  
*Thrips tabaci*, onions 7765  
Thysanoptera, *Vigna radiata* 8700  
*Uroleucon carthami*, safflower 3580  
*Uroleucon sonchi*, safflower 11925  
degradation, water 4231  
determination 8565  
effects  
aquatic invertebrates 5327  
*Bemisia tabaci* 5297  
*Caliothrips indicus* 11941  
Carabidae 7660  
fishes 6361, 11621  
*Folsomia candida* 11646  
*Folsomia fimetaria* 3351  
fungi 7591  
*Halotydeus destructor* 3332  
insect pests 8638  
man 8531  
mice 4320  
onions 6572  
plankton 5351  
rain 3332  
rats 3359  
*Stethopachys formosa* 12039  
extraction, water 502  
interactions, *Metarhizium anisopliae* 1336  
mixtures  
effects, cotton 8839  
resistance, *Myzus persicae* 11575  
nontarget effects  
arthropods 10691  
beneficial insects 9675  
Collembola 10629  
*Gastrophysa polygoni* 10696  
natural enemies 5611  
plankton 5353  
predatory arthropods 9947  
soil microarthropods 10629  
poisoning, *Apis mellifera* 5315  
residues  
aquatic organisms 5352  
chrysanthemums 12038  
*Clarias batrachus* 1366  
commodities 10577  
crops, commodities 2322  
determination 12038  
invertebrates 6369  
*Lablab purpureus* 9773  
olive oil 8808  
olives 11930  
commodities 12078  
rain 10661  
soil 2376, 5366-5367, 12038  
water 509, 2379  
resistance  
Aphididae 7543, 8498  
*Aphytis melinus* 7816  
*Euseius finlandicus* 4122, 5518  
*Frankliniella occidentalis* 6275
- Dimethoate** *cont.*  
resistance *cont.*  
*Myzus persicae* 5608  
*Tetranychus urticae* 2724, 4579  
*Trialeurodes vaporariorum* 11829  
synergists 11575  
toxicity  
*Anastrepha fraterculus* 8457  
*Aphis gossypii* 2401, 6625  
Braconidae 10587  
Coleoptera 10609  
*Rhagoletis pomonella* 9569  
sorghum 2437  
*Tenebrio molitor* 4319  
with cypermethrin, control, insect pests, cowpeas 11785
- Dimethoxon** (see Omethoate)
- (R)-10,14-Dimethyl-1-pentadecyl isobutyrate**, pheromones, *Euproctis pseudoconspersa* 10677
- Dimethyl sulfoxide**, control, *Dendroctonus frontalis*, *Pinus taeda* 9985
- 2-(N,N-Dimethylamino)-1,3-(dithiosulfonate sodium) propane**  
movement, soil 4332  
photolysis 4332
- 7-N,N-Dimethylamino-1,2,3,4,5-pentathio-cyclooctane**, metabolism, rats 6359
- 4,8-Dimethyldecanal**  
pheromones, *Tribolium* 519  
synthesis 519
- (2E,5R,6E,8E)-5,7-Dimethyl-2,6,8-decatrien-4-one**, pheromones, *Matsucoccus josephi* 11695
- (2E,5R,6Z,8E)-5,7-Dimethyl-2,6,8-decatrien-4-one**, pheromones, *Matsucoccus josephi* 11695
- (2E,5S,6E,8E)-5,7-Dimethyl-2,6,8-decatrien-4-one**, pheromones, *Matsucoccus josephi* 11695
- (2E,6E,8E)-5,7-Dimethyl-2,6,8-decatrien-4-one**  
attractants, *Elatophilus hebraicus* 12009  
pheromones, *Matsucoccus josephi* 12009
- 2,5-Dimethylheptadecane**  
mixtures, attractants, *Lambdina fiscellaria* 1890  
pheromones, *Lambdina fiscellaria* 1890
- 5,11-Dimethylheptadecane**  
mixtures, attractants, *Lambdina fiscellaria* 1890  
pheromones, *Lambdina fiscellaria* 1890
- 7,11-Dimethylheptadecane**, pheromones, *Lambdina ferdinaria* 4379
- (4Z,4'E)-4-(1',5'-Dimethyl-4'-heptylidene)-1-methylcyclohexene**, pheromones, *Eurygaster integriceps* 4374
- (3R,5S,6R)-3,5-Dimethyl-6-(methylethyl)-3,4,5,6-tetrahydropyran-2-one**  
mixtures, attractants, *Macrocentrus grandii* 7063  
pheromones, *Macrocentrus grandii* 7063
- (3S,5R,6S)-3,5-Dimethyl-6-(methylethyl)-3,4,5,6-tetrahydropyran-2-one**, mixtures, attractants, *Macrocentrus grandii* 7063
- 2,4-Dimethyl-N-(3-methyl-2(3H)-thiazolylidene)benzenamine**, residues, honey 9601
- 13,17-Dimethylnonatriacontane**  
attractants, *Trichogramma nubilale* 2116  
synthesis 2116
- (3E)-4,8-Dimethyl-1,3,7-nonatriene**, attractants, *Phytoseiulus persimilis* 4355
- 3,7-Dimethyl-2-pentadecanol**  
effects, *Diprion pini* 10188  
pheromones, *Neodiprion sertifer* 11691  
synthesis 11691
- (2S,3S,7S)-3,7-Dimethyl-2-pentadecanyl acetate**, pheromones, *Neodiprion sertifer* 4727
- 10,14-Dimethylpentadecyl n-butyrate**, pheromones, *Euproctis pseudoconspersa* 3832
- 10,14-Dimethylpentadecyl isobutyrate**, pheromones, *Euproctis pseudoconspersa* 3832
- (2S,3R,7R)-3,7-Dimethyl-2-tridecanol**, effects, *Diprion pini* 10188
- Dimilin** (see Diflubenzuron)



**Dimmockia**

Palearctic Region 8076  
taxonomy 8076

**Dimocarpus longan**

*Cerace stipitata*, China 8986  
orchards, Hymenoptera, Guangxi 11905  
*Tessaratomia papillosa*, Guangxi 11905

**Dinarmus**, hosts, *Tephritis arizonaensis* 829**Dinarmus basalis**

biology  
behaviour 9304  
development 3806  
reproduction 7168  
*Eupelmus vuilleti*, interspecific competition 12086

## hosts

Bruchidae 12086  
*Callosobruchus chinensis* 7168, 9304  
*Callosobruchus maculatus* 3806

**Dinarmus stringifrons**

Fabaceae, commodities, Delhi 10042  
hosts, *Bruchidius* 10042

**Dineura virididorsata**

*Betula pubescens*, Finland 1658  
biology, reproduction 1658

**Diniconazole**, effects, *Spodoptera eridania* 4250**Dinobuton**, effects, *Leptomastix dactylopii* 5340**Dinocampus coccinellae**

biology, environmental factors 9146  
*Coccinella septempunctata*, interactions 9146

growth regulators, effects 9146

hosts, *Coccinella septempunctata* 9146

**Dinoderus minutus**

morphology, genitalia 5754  
rice, commodities 5754  
wood, USA 11041

**Dinoponera quadriceps**

biology, development 8248  
Sergipe 8248

**Dinychus subcorticalis**

taxonomy, new species 8070  
USA 8070

**Diomus pumilio**, control, *Acizzia uncatoides*, ornamental woody plants 8943**Dioncophyllaceae**, extracts, effects, *Spodoptera littoralis* 2249**Dione juno juno**, passion fruits, Pernambuco 1578**Dioryctria***Pinus*

Arizona 10963  
varietal reactions 10963

**Dioryctria abietella**

biology, reproduction 5663  
forest trees, India 5663  
parasitoids 5663

**Dioryctria abietivorella**

biology, development 9406  
diets 9406  
rearing techniques 9406

**Dioryctria albovitella**

mycorrhizas, interactions 7939  
*Pinus*

Arizona 10963  
varietal reactions 10963

*Pinus edulis*, Arizona 7939

**Dioryctria amatella**

biochemistry, cuticle 11234  
genetics, alleles 11234

**Dioryctria clarioralis**

biochemistry, cuticle 11234  
genetics, alleles 11234

**Dioryctria disculsa**

biochemistry, cuticle 11234  
genetics  
alleles 11234  
population genetics, variation 10232  
*Pinus banksiana*, Ontario 7938  
USA 10232

**Dioryctria horneana**, *Pinus*, Cuba 8908**Dioryctria sylvestrella**

parasitoids 2859  
*Pinus pinaster*  
damage 2699, 8904  
France 2699, 8904

**Dioryctria taedivorella**

biochemistry, cuticle 11234  
genetics, alleles 11234

**Dioscorea** (see Yams)**Dioscorea polygonoides**

extracts  
insecticidal properties 8958  
toxicity, *Tribolium castaneum* 8958

**Diospyros kaki** (see Persimmons)

*Eriococcus lagerstroemiae*, Korea Republic 6025

**Diospyros virginiana**

*Oncideres cingulata*  
damage 11983  
Missouri 11983

**Dioxabenzofos**

resistance, *Adoxophyes orana* 10847  
toxicity, *Pemaeus japonicus* 9625

**1,7-Dioxaspiro[5.5]undecane**, effects, *Bactrocera oleae* 1397**Dioxyna bidentis** (see *Paroxyna bidentis*)**Dioxyna sororcula**

ecology, interspecific competition 5079  
Japan 5079

**Diparopsis castanea**, cotton, Zambia 2636**Dipel** (see *Bacillus thuringiensis* subsp. *kurstaki*; *Bacillus thuringiensis* subsp. *kurstaki*)**Dipha aphidivora**

prey, *Ceratovacuna lanigera* 2606  
sugarcane, fields, Taiwan 2606

**2,5-Diphenyl- $\Delta^4$ -1,2,4-oxadiazolin-3-ones**

effects, insect pests 7538  
synthesis 7538

**2,5-Diphenyl- $\Delta^4$ -1,2,4-thiadiazolin-3-ones**

effects, insect pests 7538  
synthesis 7538

**1,5-Diphenyl- $\Delta^2$ -1,2,3-triazolines**

effects, Aphididae 6335  
synthesis 6335

**Diplolepis annulata**, taxonomy, to

*Microdontomerus* 9049

**Diplolepis fuliginosa**, taxonomy, synonyms,

of *Torymus erucarum* 9049

**Diplolepis pedunculiventris**, taxonomy, to

*Sphegigaster* 9049

**Diplolepis polia**

*Rosa rugosa*  
galls 6811  
Ontario 6811

**Diplolepis varians**, taxonomy, to *Pteromalus*

9049

**Diplophium africanum**, oils, toxicity, *Callosobruchus* 6865**Diplonychus japonicus**

ecology, population dynamics 348  
Honshu 348  
prey, snails 348

**Diplopoda**

## biology

behaviour 3628  
development, reviews 1875

Cape Verde 7265

distribution 41

ecology 7251

communities 11988

population dynamics 7946

seasonal abundance 10943

groundnuts

Africa 6713

damage 6713

habitats, Czech Republic 7251

*Ommatolulus moreleti*, interactions 11352

*Pinus*, forests, Poland 5675

*Pinus koraiensis*, Korea Republic 7946

*Quercus*, Belgium 11988

*Quercus ilex*, forests, France 10943

South Australia 11352

woodlands, Botswana 3628

**Diplopsocus**

forest trees, Asia 14  
taxonomy, new genus 14

**Diploschema rotundicollae**

biology 10876  
food plants, Rio Grande do Sul 10876

**Diprion pini**

## biochemistry

enzymes 5874

secretions 972

## biology

behaviour 4723

reproduction 6178

ecology, population dynamics 5669, 9268  
Finland 10188

**Diprion pini** cont.

France 9268

## genetics

genetic variation 5874  
population genetics 6178  
morphology, sense organs 10188  
pheromones 10188  
physiology, sense organs 10188

*Pinus* 4723

Germany 5669

*Pinus sylvestris* 763

damage 2698, 8903

Finland 2698

France 8903

**Diprionidae**, pathogens 7956**Diprionol**, effects, *Diprion pini* 10188**(2S,3S,7S)-Diprionyl acetate**

control, *Neodiprion sertifer*, *Pinus sylvestris* 7949

pheromones, *Neodiprion sertifer* 7949

**Diptera**

*Bacillus thuringiensis*, resistance 7382

Bermuda 6103

bibliographies 11056

## biology

behaviour 7220

environmental factors 6541

## broadleaves

galls 11348

UK 11348

cereals, Denmark 2409

control, biological control 10465

crops, fields, Germany 5397

Cycadaceae, Australia 5622

## distribution

East Africa 10303

Europe 10298

Lithuania 1153

ecology 1083, 3009, 4677, 5397

arthropod communities 11403

environmental factors 11995

habitats 1126

population dynamics 191, 7946

seasonal abundance 2409

species diversity 3129

evolution 928, 7112, 11138

fields, habitats, Italy 9665

## forest trees

pollination 6772

Senegal 6772

## forests

Costa Rica 4677

India 5663

West Virginia 7594

fruit vegetables, Austria 10465

fungi, Hungary 3681

## genetics 7112

evolution 9103

genetic diversity 10239

nucleotide sequences 5986

## grasslands

Austria 4452

Germany 1126

habitats, Germany 541, 1083

hops, fields, Washington 6834

## hosts

*Antheraea yamamai* 8245

*Artora chorista* 1735

*Dioryctria abietella* 5663

*Lambdina fervedaria ahasaria* 2708

kiwifruits, France 1561

microbial pesticides, effects 541

monitoring, traps 4452

morphology 4829

genitalia 11148

natural enemies 4677

*Nothofagus pumilio*, Chile 5660

orchards, Slovakia 7802

Orchidaceae, pollination 2728

ornamental plants, Austria 10465

pathogens 6228

*Phaseolus vulgaris*, fields, Kenya 6541

## physiology

fat body, reviews 7097

sense organs 8155

*Picea abies*, Poland 1699

pigeon peas

Delhi 9760

varietal susceptibility 9760

*Pinus koraiensis*, Korea Republic 7946

*Pinus rigida*, forests, New Jersey 9984



- Diptera cont.**  
*Pinus sylvestris*, UK 2696  
Poland 3009  
predators 8373, 9445  
prey  
    *Aphis fabae* 6541  
    *Haematoloma dorsatum* 9665  
    *Phorodon humuli* 6834  
*Prosopis cineraria*  
    pollination 3649  
    Rajasthan 3649  
*Salix lasiolepis*, Arizona 11995  
Slovenia 5083  
*Tabebuia chrysotricha*, Sao Paulo 8358  
taxonomy 4829  
*Tsuga*, forests, Connecticut 2708  
USA 8373  
weeds, pollination 2761  
wheat, UK 4409  
wild plants, seeds, Namibia 3684
- Dipterocarpus alatus***  
    *Cerosterna scabrator*  
        damage 8889  
        Thailand 8889
- 2,2'-Dipyridyl**, analogues, effects, *Trichoplusia ni* 4275
- Directories**  
    insecticides 6929  
        legislation 2822  
    pesticides 4815, 11559  
        UK 6932
- Dirhinus anthracia***  
    attractants 6052  
    control, *Exorista bombycis*, evaluation 6271  
    ecology, life tables 6271  
    hosts, *Exorista bombycis* 6052
- Dirphia rosacordis***, *Eucalyptus urophylla*, Minas Gerais 4694
- Disaccharides***, attractants, *Exorista bombycis* 6272
- Discestra trifolii***, pheromones 7634
- Dischidia major***, *Philidris*, Malaysia 10289
- Discourella gatlburgiana***  
    taxonomy, new species 8070  
    USA 8070
- Discus cronkhiiei***, predators 223
- Disholcaspis quercusmamma***  
    biology 8874  
    parasitoids 8874  
    *Quercus*  
        Colorado 8874  
        resistance 8874
- Dismorphia amphione spio***  
    parasitoids 7339  
    Puerto Rico 7339
- Disodium octaborate tetrahydrate***  
    control  
        *Coptotermes formosanus*, *Pseudotsuga menziesii*, wood 8023  
        *Reticulitermes flavipes*, *Populus*, wood 6867
- Disonycha pluriligata***  
    biology, behaviour 4704  
    *Salix exigua*, Arizona 4704
- Disparlure***  
    analysis 9658  
    pheromones, *Lymantria dispar* 404, 9658
- Disteniidae**  
    Asia 6942, 6946  
    Europe 6942, 6946  
    taxonomy 6946  
        new species 6942
- Distichlis spicata***, *Carneocephala floridana*, Florida 4777
- Distylium racemosum***, *Neothoracaphis yanonis*, Jiangsu 3653
- Disulfoton**  
    carbofuran, interactions 491  
    control, *Perileucoptera coffeella*, coffee 1622, 3606  
    effects, coffee 2618  
    nontarget effects, *Perillus bioculatus* 9775  
    residues, coffee 3606
- Diterpenoids**, antifeedants, *Tenebrio molitor* 2391, 6404
- Dithane**, control, *Beauveria bassiana* 3258
- Dithane M-45** (see Mancozeb)
- Dithianes**  
    chemistry 10343
- Dithianes cont.**  
    toxicity, insect pests 10343
- Diuraphis noxia***  
    wheat, Australia 8637  
    barley  
        damage 9688  
        resistance 2418, 5413  
        Washington 5412  
    biology 6441, 11716  
        behaviour 4395  
        development 9743  
    cereals 6421, 7649  
        Argentina 10493  
        resistance 7651  
        Syria 11714  
    control, biological control 8637, 11725  
    *Diaeretiella rapae*, interactions 6177  
    distribution  
        Africa 4037  
        Asia 4037  
        Syria 11714  
        Yugoslavia 1157  
    ecology 4037  
        distribution 6434  
    fertilizers, effects 6441  
    grasses 9743  
    insecticides, effects 9680  
    natural enemies 11717  
    nitrogen, effects 11716  
    ozone, effects 4226  
    parasitoids 2123, 4004, 4010, 6177, 6183, 6428, 8368, 9674  
    pathogens 5218, 6421  
    predators 1218, 2045, 5412, 6176  
    sampling 6433-6434, 7649  
    Washington 8368  
    water, effects 6441  
    wheat 6176, 6441, 9674, 9680, 11716  
        Alberta 6434  
        Colorado 11725  
        France 9676, 11717  
        Kansas 9685  
        resistance 2415, 3431, 4395, 6449, 8635, 9685  
        USA 6433, 8633  
        varietal reactions 9676
- Diurnea fagella***, *Fagaceae*, Slovakia 11987
- Diuron**  
    effects, aquatic organisms 2302  
    toxicity, *Metarhizium anisopliae* 2307
- Djibouti**, Isopoda 2040
- Dociostaurus crassiusculus***  
    control, integrated control 276  
    Xinjiang 276
- Dociostaurus kraussi*** (see *D. crassiusculus*)
- Dociostaurus maroccanus***  
    biological control agents, evaluation 2173  
    biology 6148  
        environmental factors 7325  
    pheromones 6148  
    predators 6148  
    Spain 6148, 7325
- (5Z,17Z)-Docosa-5,17-diene**, pheromones, *Helicoverpa armigera* 4357
- (7E,9Z)-7,9-Dodecadien-1-ol acetate**, control, *Lobesia botrana*, grapes 4575
- (8E,10E)-8,10-Dodecadien-1-yl acetate**  
    control, *Cydia nigricana*, peas 4480  
    pheromones, *Cydia nigricana* 4480
- Dodecan-1-ol**, pheromones, *Acrobasis vaccinii* 7061
- (Z)-8-Dodecanol**, mixtures, attractants, Tortricidae 6703
- (3Z,6Z)-3,6-Dodecanolide**  
    pheromones, Cucujidae 7317  
    synthesis 7317
- (3Z,6Z,8E)-3,6,8-Dodecatrien-1-ol**, pheromones, *Reticulitermes santonensis* 766
- (Z)-7-Dodecen-1-acetate**, pheromones, *Noc-tuidae* 5272
- Dodecanol**, pheromones, *Graphania* 402
- Dodecen-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (Z)-3-Dodecen-1-ol-(E)-2-butenate**, pheromones, *Cylas formicarius elegantulus* 8716
- (E)-5-Dodecen-1-ol**, pheromones, *Tricimba cincta* 270
- Dodecenyl acetate**, pheromones, *Graphania* 402
- (Z)-5-Dodecenyl acetate**  
    pheromones  
        *Agrotis segetum* 9657  
        *Trichoplusia ni* 3824
- (Z)-7-Dodecenyl acetate**  
    effects, *Atethmia ambusta* 11850  
    mixtures, control, *Agrotis segetum* 9537  
    pheromones  
        *Agrotis ipsilon* 5070  
        *Agrotis segetum* 9657
- (Z)-8-Dodecenyl acetate**  
    mixtures, attractants, Tortricidae 6703  
    pheromones, *Eucosma notanthus* 3568
- (Z)-7-Dodecenyl**, pheromones, *Agrotis segetum* 9657
- Dodecyl acetate**  
    attractants, predatory arthropods 212  
    pheromones, *Frankliniella occidentalis* 212
- Dog foods**  
    habitats, *Anisopteromalus calandrae*, Puerto Rico 6884
- Lasioderma serricorne***, Puerto Rico 6884
- Dogs**  
    insecticides, toxicity 1365, 8536  
    pesticides, effects 3384  
    *Thaumetopoea pityocampa*, poisoning 2101, 6156
- Dolerus***, heavy metals, effects 10501
- Dolerus nitens***  
    biochemistry, sterols 8175  
    *Festuca arundinacea*, Virginia 8175
- Dolichoderus***, taxonomy 37
- Dolichoderus attelaboides***, taxonomy 37
- Dolichoderus bidens***, taxonomy 37
- Dolichoderus bispinosus***  
    *Nasutitermes corniger*, interactions 11461  
    taxonomy 37  
    Venezuela 11461
- Dolichoderus doriae***, morphology, venom glands 8101
- Dolichoderus quadripunctatus***, taxonomy 37
- Dolichoderus scabridus***, morphology, venom glands 8101
- Dolichogenidea***  
    groundnuts, fields, Maharashtra 11938  
    hosts, *Aproaerema modicella* 11938  
    taxonomy 3751
- Dolichogenidea aethiopica***, taxonomy, synonyms of, *Apanteles procerae* 3751
- Dolichogenidea cameroonensis***, taxonomy, new species 3751
- Dolichogenidea fuscivora***, taxonomy, new species 3751
- Dolichogenidea oryzae***, taxonomy, new species 3751
- Dolichogenidea pblaszeki***, taxonomy, new species 3751
- Dolichos lablab*** (see *Lablab purpureus*)
- Dolichovespula***, biology, behaviour, models 3048
- Dolichovespula maculata***  
    ecology, bioenergetics 3926  
    genetics, genes, venoms 8408
- Dolichovespula media***, distribution, Europe 1161
- Dolichovespula norvegicoides***  
    biology, behaviour 3939  
    Washington 3939
- Dolichovespula norwegica***, distribution, Europe 1161
- Dolichovespula saxonica***, distribution, Europe 1161
- Dolichovespula sylvestris***, distribution, Europe 1161
- Dolichus halensis***  
    millets, fields, Honshu 7349  
    prey, insect pests 7349
- Dolycoris indicus***  
    rice  
        damage 9732  
        Orissa 9732
- Dominican Republic**  
    Agromyzidae 251  
    *Annona*, insect pests 11908  
    aubergines, *Bemisia tabaci* 11831  
    *Catogenus* 11135  
    *Citrus*, *Toxoptera citricidus* 4591  
    tomatoes, *Bemisia tabaci* 1523
- Domomyza***, prey, *Osmia tricornis* 5148



- Dorcacerus barbatus*  
biology 4689  
food plants, Argentina 4689
- Dorcatoma*, taxonomy 3754, 9081
- Dorcatoma chrysomelina* group, taxonomy 6962
- Dorcatoma dresdensis*, taxonomy 9081
- Dorcatoma minor*  
*Phellinus*, Central Europe 6962  
taxonomy, new species 6962
- Doronomyrmex kutteri*, genetics, genes 5143
- Doryctes diadoxi*  
hosts, Buprestidae 5172  
taxonomy, to *Jarra* 5172
- Doryctinae*, morphology, reproductive organs 3793
- Dorylinae*  
groundnuts  
Africa 6713  
damage 6713
- Dorylus orientalis*  
biology, environmental factors 11937  
groundnuts, Delhi 11937
- Douglas fir (see *Pseudotsuga menziesii*)
- Dowco 439 (see Chlorpyrifos-methyl)
- Dracaena fragrans*, *Xyleborus affinis*, Italy 1717
- Dracaena marginata*, Diaspididae, Hungary 7978
- Draeculacephala inscripta*, *Pistia stratiotes*, Florida 3694
- Draeculacephala minerva*  
grapes 7838  
plant pathogens, transmission 7838
- Draeculacephala soluta*, rice, damage 10737
- Drawida wilsi*, insecticides, effects 6377
- Drepanaphis acerifoliae*  
*Acer saccharinum*, California 8864  
monitoring 8864
- Drepanidae*, *Fagus*, Slovakia 3642
- Drepanosiphum platanoidis*  
*Acer pseudoplatanus*, UK 5652  
genetics, population genetics 5652
- Drepanotermes tamminensis*  
biology 3636  
broadleaves 3636  
ecology, habitats 11464  
habitats, Western Australia 11464  
woody plants, Western Australia 7370
- Drepanothrips reuteri*  
control, integrated control 8776  
ecology, population dynamics 6667  
grapes  
Chile 8776  
Germany 6667  
predators 4124  
prey, *Typhlodromus pyri* 6667
- Dreyfusia nordmannianae*  
biology, life cycle 183  
forest trees 183
- Dreyfusia piceae*  
*Abies fraseri*  
damage 8927-8928  
USA 8927  
predators 4745
- Drimys winteri andina*, *Prophyllonistis epidrimys*, Chile 5794
- Drimys winteri chilensis*, *Prophyllonistis epidrimys*, Chile 5794
- Drinking water**  
insecticides, residues 2371, 2373-2375, 2378, 2380, 6392  
pesticides  
residues 7620  
analysis 10644  
extraction 7609, 10644
- Drosicha mangiferae*, *Syzygium cumini*, Uttar Pradesh 9662
- Drosophila*  
bacteria, symbiosis 11356  
biochemistry 1880, 4968  
chemical composition 1915  
DNA 1039, 1051  
effects 1002  
embryogenesis 2897  
enzymes 1925, 4917, 4919, 7036  
metabolism 3821  
nervous system 11203  
proteins 960  
biology  
behaviour 3043, 11315
- Drosophila* cont.  
biology cont.  
behaviour cont.  
metamorphosis 7178  
development 4985, 7013, 8182  
overwintering 1099  
reproduction 1073  
cell lines, biochemistry, cell ultrastructure 4968  
cherries, Honshu 7824  
ecology 2011  
community ecology 1978  
evolution 1004, 11138  
wings, genetics 8099  
genetics 157, 1004, 1019, 1027, 1042, 1925, 1938, 2945, 2948, 3821, 4994, 4999, 5001-5002, 5966, 7139-7140, 7142, 8182, 10216, 11137, 11242, 11268, 11356  
cell division 5954  
chromosomes 5963, 10209  
development 1924, 4983, 7117  
DNA 2951, 5990, 11255  
embryonic development 3797  
endocrine system 8192, 8225  
evolution, reviews 8224  
gene expression 1055, 4992, 5955, 5958, 5964, 5967, 5979-5982, 8194, 11250  
genes 154, 1040, 1050, 1930, 2979-2980, 2986, 3885-3886, 4997-4998, 5961, 5968-5969, 7131, 7136, 7138, 7141, 7144, 8184, 8191, 8209, 8212, 8227, 9226, 9248, 11239, 11252  
reproduction 3872  
wings, development 7145  
genetic variation 1025  
genome analysis 2952  
hybridization 5999  
immune response 1005  
immune system 148  
insecticide resistance 2968  
inversion polymorphism 1941  
karyotypes 10228  
meiosis 10211  
mitochondrial DNA 11262  
molecular genetics 11261  
mosaics, cell markers 8197  
mutations 1034, 7120  
nervous system 7143  
proteins 2958  
RNA 2969-2970  
sterility 156  
wings, pattern formation 5950  
Hawaii 11315  
Michigan 1099  
monitoring, traps 7824  
morphology 9051  
legs 11156  
Ontario 11361  
ontogeny, models 7011  
parasitoids 3967, 11439  
pathogens 358, 11484  
physiology  
defence mechanisms 8117  
development 7037  
excretory system 9186  
nervous system 11242  
oogenesis 3847  
reproduction 79  
reviews 1900  
sense organs 5924  
predators 10383, 11458  
songs 3963  
symbionts 11361  
taxonomy, new species 9051
- Drosophila affinis* group  
biology, overwintering 1099  
genetics 1054  
Michigan 1099
- Drosophila albomicans*  
distribution, Japan 4044  
evolution 4873
- Drosophila aldrichi*, ecology, interspecific competition 6082
- Drosophila ambigua*, evolution 929
- Drosophila americana*, biology 2863
- Drosophila ananassae*  
biology 1081  
ethanol, tolerance 11175
- Drosophila ananassae* cont.  
genetics 2991  
behaviour 3001  
chromosomes 5007  
genes 8216  
population genetics 3903, 3906  
India 2991, 3903, 5007
- Drosophila athabasca*  
genetics 11281  
North America 11281
- Drosophila auraria*  
biology, environmental factors 11338  
complex, taxonomy 1044  
genetics, cytogenetics 1031  
songs 3963
- Drosophila basimacula*  
attractants 6396  
Hawaii 6396
- Drosophila biarmipes*  
biology 1081  
genetics 4980
- Drosophila biauvaria*, biology, environmental factors 11338
- Drosophila bipunctata*  
biology 1081  
genetics, population genetics 1060, 3904  
India 1060, 3904
- Drosophila bipunctata* group, genetics, polymorphism 9224
- Drosophila borealis*, biology 2863
- Drosophila busckii*  
diets 2961  
genetics  
biochemical polymorphism 2961  
genetic variation 3899  
population genetics 3906  
India 3899
- Drosophila buzzatii*  
Australia 2998, 3000  
biochemistry, pheromones 2935  
biology, reproduction, models 7173  
Cactaceae, Argentina 2947  
ecology, interspecific competition 6082  
genetics 7173, 8185, 8187  
alleles 2998  
chromosome polymorphism 2947  
heat resistance 3000  
polymorphism 10237  
population genetics 1962  
retrotransposons 9232  
sexual selection 9256  
pheromones 2935  
South America 10237  
Spain 7173, 8187
- Drosophila eohydei*, genetics, chromosomes 1015
- Drosophila erecta*, genetics, enzymes 2963
- Drosophila ezoana*, biology 2863
- Drosophila flavohirta*  
*Apis mellifera*, interspecific competition 5682  
*Eucalyptus*, South Africa 5682
- Drosophila flavomontana*, biology 2863
- Drosophila floricola*  
ecology, competition 2723  
*Ipomoea acuminata*, Hawaii 2723
- Drosophila funebris*  
biology  
behaviour, models 7211  
environmental factors 4008
- Drosophila gaucha*  
biology  
behaviour 1993  
environmental factors 4008  
Brazil 1993
- Drosophila gaucha* × *Drosophila pavani*, biology, behaviour 1993
- Drosophila heteroneura*, biology, behaviour 11328
- Drosophila hydei*  
biology, environmental factors 4008  
genetics  
chromosomes 1015, 8190  
genes 11254  
parasitoids 335, 1092  
UK 335
- Drosophila immigrans*  
Asia 3893  
biology  
behaviour, models 7211  
environmental factors 3893, 4008



*Drosophila immigrans* cont.  
 genetics  
   genetic variation 3899  
   population genetics 3892-3893, 3907  
 India 3899, 3907

*Drosophila immigrans* group  
 Oriental Region 10109  
 taxonomy, new species 10109

*Drosophila jambulina*, complex, taxonomy  
 1044

*Drosophila kanekoi*, biology 2863

*Drosophila kikkawai*  
 complex, taxonomy 1044  
 genetics, population genetics 7111

*Drosophila kokeensis*  
 attractants 6396  
 Hawaii 6396

*Drosophila laticola*, biology 2863

*Drosophila lexona*, biology 2863

*Drosophila littoralis*  
 biology 2863  
   behaviour 7192  
 Finland 7192

*Drosophila lummei*, biology 2863

*Drosophila malerkotliana*  
 biology 1081  
 genetics, population genetics 3904-3905  
 India 3904-3905

*Drosophila martensis*, genetics, population  
 genetics 1962

*Drosophila mauritiana*  
 biology, behaviour 5996  
 evolution 1004  
 genetics 1004, 1027, 1724, 11266  
   behaviour 2988  
   enzymes 2963  
   variation 5996

*Morinda citrifolia* 1724  
 plant extracts, toxicity 5693

*Drosophila mediopunctata*  
 biology, reproduction 8180  
 Brazil 10130  
 genetics  
   chromosomes 8180  
   population genetics 10130  
 morphology 10130

*Drosophila melanogaster*  
 air pollutants, effects 8605  
 apples, orchards, Wisconsin 9833  
 Asia 2997  
 biochemistry  
   development 1933  
   digestive system 1893  
   effects 1002  
   enzymes 89, 963, 994, 5866, 5875-5876, 6005, 8122  
   fatty acids 1911  
   glycoproteins 10208  
   membranes 6324, 8132  
   metabolism 5884, 8134  
   muscles 7072  
   nervous system 1894, 7077  
   proteins 82, 4909  
   purification 5100  
   reproduction 5929  
   spermatozoa 10142  
 biology  
   aging 4926-4927  
   behaviour 1087, 1987, 3042, 3971, 6042, 7330, 8123, 11232, 11267, 11310, 11315  
   reviews 3983  
   development 1008, 6018  
   environmental factors 1950, 2962, 2995, 3334, 4008  
   reproduction 1869, 3021, 4900, 8246, 9142  
 California 10231  
 cherries, Honshu 7824  
 cold resistance 3857  
 Congo 8200  
 cryopreservation 8328  
 diets 9209  
 ethanol, tolerance 11175  
 Europe 2997  
 evolution 1004, 1026, 7112  
 France 8200  
 fungicides, effects 1348  
 genetics 1004, 1021, 1024, 1026-1029, 1042, 1724, 1931-1932, 1940, 1953-1955, 2944, 2989, 2993, 2997,

*Drosophila melanogaster* cont.  
 genetics cont.  
   3871, 3884, 4996, 5006, 5014, 5305, 6003, 7112, 7137, 8183, 8206, 8208, 8213, 8232, 8246, 9243-9244, 9246, 9249-9251, 9255, 10214, 10217-10218, 10229, 11266, 11277  
   actin 8199  
   aging 5998  
   amino acids 167  
   behaviour 1960, 2966  
   chromosomes 152, 5960, 7114, 7121, 11243  
   circadian rhythm 11267  
   cytogenetics 1058, 7125  
   development 3887  
   DNA 163, 4986, 10227  
   endocrine system 8193  
   enzymes 1053, 2963  
   evolution 166  
   flight 1035  
   gene conversion 8226  
   gene expression 1011, 1933, 2950, 7119, 7122, 8200, 8228  
   genes 155, 164, 1022, 1045, 2949, 2981, 2999, 5000, 5962, 5970, 5978, 7123, 8207, 8210-8211, 9234, 9236, 11273-11274  
   genetic variation 1950, 2995, 3902  
   genomes 1023, 5965  
   genotype environment interaction 2962  
   inbreeding 10230  
   insecticide resistance 1943, 8505, 9833  
   interspecific hybridization 7133  
   meiosis 151, 1033  
   mitochondrial DNA 11262  
   mitosis 1921  
   mutagens 10213  
   mutants 3874  
   mutations 1020, 2953, 2971, 5971-5972, 8214, 9247  
   pesticide resistance 11276  
   polymorphism 1959, 6000, 6005  
   population genetics 1057, 3906, 7115, 10231, 11257  
   reproduction 4982  
   RNA 1043  
   segregation distortion 7130  
   tolerance 1006  
   transposable elements 1037, 2992, 5015  
   models 1952  
   variation 2994  
   Greece 11277  
   habitats, Moldova 11276  
   heat resistance 6066  
   herbicides, effects 963, 3387  
   Hungary 6003  
   India 7133, 11257  
   insecticides  
     effects 5305, 7595  
     resistance 1920, 3334, 5304, 6324, 8505, 9833, 10608, 11596  
   Moldova 6000  
   monitoring, traps 7824  
   *Morinda citrifolia* 1724  
   morphology 2994, 7003, 7115  
   asymmetry 5006  
   glands 5836  
   New South Wales 1959  
   North America 9255  
   ontogeny, aging 8115  
   Orissa 2962  
   parasitoids 306, 332, 6065, 7330, 8361, 10365, 11310-11311  
   pathogens 2177, 6224, 7956, 9494, 11484, 11486  
   pesticides, effects 8132  
   pheromones 5885, 8605  
   biosynthesis 11224  
 physiology  
   accessory glands 8163  
   aging 81, 999, 5865, 11176  
   development 1905, 11200  
   endocrine system 9209, 11218, 11223, 11273-11274  
   enzymes 8123  
   excretory system 5901

*Drosophila melanogaster* cont.  
 physiology cont.  
   flight 5861  
   hormones 5885  
   nervous system 117, 122, 9187  
   olfactory organs 4959  
   photoreceptors 8153  
   reproduction 7092  
   secretions 1888  
   sense organs 127, 7083  
   senses, reviews 4958  
   smell 2989  
 plant extracts  
   effects 803, 5865  
   growth regulators 5370  
   toxicity 804, 5693  
 predators 3045, 6181, 8371  
 songs 2993, 3902  
 symbionts 2166  
 Victoria 2999, 7115

*Drosophila melanogaster* group  
 biochemistry 10226  
 evolution 11138  
 genetics 1054, 10226  
 phylogeny 2963  
 taxonomy 1044

*Drosophila mettleri*  
 biochemistry, enzymes 2744  
 Cactaceae, America 2744  
 physiology 4929  
 songs 9386

*Drosophila mojavensis*  
 biochemistry, enzymes 2744  
 Cactaceae, America 2744  
 physiology 4929

*Drosophila montana*  
 biology 2863  
   behaviour 7192  
 Finland 7192

*Drosophila montium*, genetics, population  
 genetics 5957

*Drosophila montium* group, taxonomy 1044

*Drosophila mulleri*, genetics, population  
 genetics 1962

*Drosophila nasuta albomicans* (see *D. albomicans*)

*Drosophila nasuta nasuta*, evolution 4873

*Drosophila nebulosa*  
 genetics, population genetics 3895  
 Rio Grande do Sul 3895

*Drosophila neotestacea*  
 New York 6240  
 pathogens 6240

*Drosophila nigrospiracula*  
 biochemistry, enzymes 2744  
 Cactaceae, America 2744  
 natural enemies 6157

*Drosophila novamexicana*, biology 2863

*Drosophila obscura*  
 evolution 929  
 parasitoids 332

*Drosophila obscura* group  
 California 8297  
 ecology, environmental factors 8297  
 genetics 1054  
   DNA 1041  
   polymorphism 3881

*Drosophila pachea*  
 biochemistry, enzymes 2744  
 biology, reproduction 1864  
 Cactaceae, America 2744

*Drosophila paulistorum*  
 biology, reproduction 10429  
 songs 11308

*Drosophila pavani*  
 biology  
   behaviour 1993  
   environmental factors 4008  
 Chile 1993

*Drosophila perissopoda*  
 attractants 6396  
 Hawaii 6396

*Drosophila persimilis*  
 biology, behaviour 11141  
 California 11141

*Drosophila phalerata*, ecology, interspecific  
 competition, models 245

*Drosophila planitibia*, biology, behaviour  
 11328



- Drosophila pseudoobscura***  
 biology  
   behaviour 1987, 11141  
   reproduction 7459  
 evolution 1026  
   genetics 1026, 1028, 1042, 4996  
   pathogens 7459  
   USA 11141
- Drosophila pseudoobscura* group, genetics**  
 1054
- Drosophila pulchrella***  
 cherries, Honshu 7824  
 monitoring, traps 7824
- Drosophila putrida***  
 New York 6240  
 pathogens 6240
- Drosophila repleta*, distribution, Finland**  
 8300
- Drosophila repleta* group**  
 America 11279  
 genetics 11279
- Drosophila richardsoni*, genetics, population**  
 genetics 1962
- Drosophila robusta*, biology, environmental**  
 factors 8285
- Drosophila sechellia***  
 genetics 1724, 3900, 11266  
*Morinda citrifolia* 1724, 5693  
 pheromones 3900
- Drosophila serrata***  
 Australia 1009-1010  
 genetics, population genetics 1009-1010
- Drosophila silvestris*, biology, behaviour**  
 3973, 11328
- Drosophila simulans***  
 Africa 1922  
 apples, orchards, Wisconsin 9833  
 biochemistry, membranes 6324  
 biology, environmental factors 4008  
 California 10231  
 evolution 1004, 1026  
 genetics 1004, 1026-1027, 1724, 2978,  
   3900, 11266  
   chromosomes 1926  
   cytogenetics 7125  
   enzymes 2963  
   genes 1922, 2957  
   genetic polymorphism 2975  
   insecticide resistance 9833  
   interspecific hybridization 7133  
   population genetics 1056-1057, 7115,  
   10231  
   reproduction 1036  
   transposable elements 1037  
 insecticides, resistance 1920, 6324, 9833,  
   10608  
*Morinda citrifolia* 1724  
 morphology 7003, 7115  
 pathogens 6224  
 pheromones 3900  
 plant extracts, toxicity 5693  
 symbionts 2166  
 Victoria 7115
- Drosophila stalkerii*, genetics, population**  
 genetics 1962
- Drosophila sturtevantii*, evolution** 3894
- Drosophila subobscura***  
 America 8223  
 biology  
   development 3805  
   reproduction 129  
 Chile 3780  
 ecology, interspecific competition, mod-  
   els 245  
 Europe 8223  
 evolution 3780  
 genetics 1042  
   chromosome polymorphism 10236  
   chromosomes 129, 2977  
   polymorphism 8223  
   cytogenetics 3879  
   mitochondrial DNA 1951  
 parasitoids 332, 6065, 9437, 10365  
 Portugal 3805  
 Spain 10236
- Drosophila suzukii***  
 biochemistry, peptides 11232  
 biology, behaviour 11232  
 cherries, Honshu 7824  
 genetics, genes 11232  
 monitoring, traps 7824
- Drosophila teissieri***  
 genetics 11266  
   enzymes 2963
- Drosophila triauraria***  
 biology, environmental factors 7230  
 Japan 7230
- Drosophila tripunctata***  
 biology  
   behaviour 195  
   environmental factors 195, 8285  
   predators 195
- Drosophila tripunctata* group**  
 genetics, population genetics 3898  
 Rio Grande do Sul 3898
- Drosophila tristis*, evolution** 929
- Drosophila villosipedis***  
 attractants 6396  
 Hawaii 6396
- Drosophila virilis***  
 Asia 3893  
 biochemistry, enzymes 994, 5870, 8124,  
   9161  
 biology 2863  
   environmental factors 3893, 4008  
 distribution, China 9051  
 ecology, reproduction 7182  
 evolution 1026  
 genetics 1026  
   amino acids 167  
   chromosomes 153  
   genes 1022, 3886  
   population genetics 3893
- Drosophila virilis* group**  
 genetics 924  
 phylogeny 2863  
 songs 11304
- Drosophila willistoni***  
 biology, reproduction 7459  
 genetics, chromosomes 3878  
 pathogens 7459  
 Rio Grande do Sul 3878
- Drosophila willistoni* group, songs** 11308
- Drosophila yakuba***  
 genetics 11266  
   enzymes 2963
- Drosophilidae**  
 attractants 6396  
 Austria 1180  
 biology 861, 1180  
   feeding 11715  
 cereals, fields, Denmark 11715  
 China 3745, 5093  
 control 861  
 ecology, habitats 6038  
 evolution 1027  
 genetics 1027  
   evolution 5008  
   nucleotide sequences 5986  
   nucleotides 168  
 Germany 1077  
 Hawaii 6396  
 Honshu 6038  
 monitoring, traps 1180  
 statistical techniques 1077  
 taxonomy, phylogeny 2851
- Drosophila nigrospiracula*, physiology** 4929
- Dryas integrifolia*, Gynaephora groen-**  
*landica*, Canada 11302
- Dryas iulia* (see *D. julia*)**
- Dryas julia***  
 genetics, population genetics 5011  
 Rio Grande do Sul 5011
- Dryas octopetala***  
*Acyrtosiphon brevicorne* 4011  
*Acyrtosiphon svalbardicum*, Spitsbergen  
   8970
- Dryocoetes autographus***  
 biology  
   development 77  
   reproduction 10974  
*Picea abies*, Norway 10974
- Dryocoetes confusus***  
*Abies lasiocarpa*, British Columbia 1702  
 control, trapping 1702
- Dryocosmus kuriphilus***  
*Castanea*, Japan 5657  
 chestnuts  
   galls 7860  
   Kyushu 7860  
 control, biological control 7860  
 ecology, population dynamics 5657
- Dryocosmus kuriphilus* cont.**  
 genetics, chromosome number 149  
 Japan 7045  
 Korea Republic 10366  
 parasitoids 7045, 10366  
 sampling 5657
- Dryopteris deltoidea*, Lamponius portoricensis**, Puerto Rico 3687
- Dryptocephala lurida***  
*Solanum*, Argentina 603  
 taxonomy 603
- Ducks**, insecticides, residues 4310
- Dudua aprobola***  
 control, chemical control 5559  
*Litchi chinensis*, West Bengal 5559
- Dugesia tigrina*, pesticides, effects** 4286
- Duranta repens***  
 extracts, effects, *Maladera matrida* 3940  
*Mylabris balteata* 3010
- Dursban** (see Chlorthrifos)
- Dwellings**, insecticides, residues 7606
- Dynamis borassi***  
 morphology, reproductive organs 5839  
 Venezuela 5839
- Dynastes granti*, taxonomy** 2855
- Dynastinae**, *Eichhornia crassipes*, Brazil  
 1120
- Dynastini**, taxonomy 2875
- Dysaphis*, taxonomy** 15
- Dysaphis apiifolia***  
 biology 2538  
 celery, California 10808  
 control 2538  
 ecology, distribution 10808  
 marrows, Italy 2538  
 monitoring, traps 10808  
 morphology 2538  
 natural enemies 2538
- Dysaphis brancoi*, distribution, India** 15
- Dysaphis plantaginea***  
 apples  
   damage 8762  
   Italy 8762  
   Switzerland 8760  
   Washington 8757  
   West Virginia 651  
 biology 7808  
 control 7808  
 distribution, India 15  
 ecology, spatial distribution 651  
 pome fruits, Italy 7808  
 predators 8760
- Dysaphis selinumi***  
*Selinum tenuifolium*, India 15  
 taxonomy, new species 15
- Dysaphis tulipae*, distribution, India** 15
- Dyschirius variabilis*, distribution, South**  
 Asia 3122
- Dysdercus*, morphology, colour** 62
- Dysdercus bimaculatus***  
*Bombacopsis quinata*  
   seeds  
   Colombia 2689  
   damage 2689
- Dysdercus cardinalis***  
 ecology, population dynamics 6408  
 food plants, Kenya 6408
- Dysdercus cingulatus***  
 growth regulators, effects 8513  
 insecticides, effects 5303  
 pathogens 6235  
 physiology, metabolism 6235  
 plant extracts, effects 7987
- Dysdercus fasciatus***  
*Adansonia digitata*, Kenya 6408  
 biochemistry, moulting hormones, immu-  
   noassay 6120  
 ecology, population dynamics 6408
- Dysdercus intermedius*, physiology, repro-**  
 duction 11161
- Dysdercus koenigii***  
 biochemistry, development 1874  
 biology, environmental factors 8282  
 genetics, mutations 5956  
 growth regulators, effects 4348  
 juvenile hormone analogues, effects 1390  
 morphology 5956  
 plant extracts, effects 11002
- Dysdercus peruvianus***  
 biochemistry, enzymes 7048  
 pathogens 7390



*Dysdercus similis*, plant extracts, effects 2734

**Dysderidae**  
ecology, population dynamics 11929  
monitoring, traps 11929  
olives, orchards, Italy 11929

**Dysmicoccus brevipes**  
*Bromelia hemisphaerica*, Mexico 811  
control, chemical control 4597  
ornamental plants, British Virgin Islands 6806

*Pheidole megacephala*, interactions 3562  
pineapples  
Hawaii 3562  
Minas Gerais 4597

*Dysmicoccus cocotis*, coconuts, Asia 5575

*Dysmicoccus fuitimus*  
coconuts, Asia 5575  
taxonomy, new species 5575

*Doxylum spectabile*, extracts, repellents, Formicidae 3415

**Dytiscidae**  
*Eucalyptus*, Espirito Santo 3637  
monitoring, traps 3637

*Eacles magnifica*, *Eucalyptus*, Brazil 1660

*Eagris sabadius*  
pathogens 4174  
predators 8435  
Reunion 8435

**Earias**  
cotton  
Maharashtra 11971  
resistance 11971

**Earias insulana**  
biology, behaviour 5610, 9120, 11839  
control 5610  
chemical control 1634, 5610  
cotton  
Indian Punjab 1634  
Pakistan 5610  
resistance 5268  
morphology, glands 9120  
okras 11839  
pheromones 5610  
tomatoes, resistance 5268

**Earias vittella**  
biology, behaviour 5610, 11965  
control 5610  
chemical control 1634, 5610, 6624, 8836  
cotton  
Gujarat 5615  
India 9963  
Indian Punjab 1634  
Maharashtra 8834, 8836  
Pakistan 5610  
resistance 9963  
Tamil Nadu 3612  
fertilizers, effects 3612  
host plants 11965  
monitoring, traps 8834  
okras  
Andhra Pradesh 6624  
Gujarat 8748  
pheromones 5610  
plant extracts, effects 8748

**Earthworms**  
insecticides  
effects 3383, 6377, 7563  
toxicity 477  
pesticides, residues 5332

**Earwigs** (see *Dermatopera*)

**East Africa**, *Odontomelus* 6988

**East Asia**, *Tettigoniidae* 8060

**Eastern spruce** (see *Picea orientalis*)

**Ebuphos**, effects, potatoes 599

**$\beta$ -Ecdysone** (see *Ecdysterone*)

**Ecdysones** (see *Moulting hormones*)

**Ecdysteroids** (see *Moulting hormones*)

**Ecdysterone**  
effects  
*Bombyx mori* 11680  
*Hyphantria cunea* 7533  
insects 11683  
Lepidoptera 8510  
cell lines 9554  
plants 11560

**Ecdytolopha aurantianum**  
biology 6683  
life cycle 679  
*Citrus*, Trinidad and Tobago 6683

**Ecdytolopha aurantianum** cont.  
control 6683  
distribution 6683  
*Macadamia*, Costa Rica 679

**Ecdytolopha torticornis** (see *E. aurantianum*)

**Echinochloa colona** (see *Echinochloa colonum*)

**Echinochloa colonum**, *Blissus leucopterus*, Colombia 2483

**Echinochloa crus-galli**  
biological control agents, evaluation 824  
*Enosima leucotaeniella*, Malaysia 6853  
*Listronotus bonariensis*, resistance 6852

**Echinochloa frumentacea**  
Delphacidae, resistance 565  
extracts, antifedants, Delphacidae 565

**Echinochloa oryzicola** (see *Echinochloa oryzoides*)

**Echinochloa oryzoides**  
biological control agents, evaluation 824  
*Enosima leucotaeniella*, Malaysia 6853  
*Pomacea canaliculata*, Japan 5443

**Echinochloa phyllopogon** (see *Echinochloa oryzoides*)

**Echinochloa picta**, *Enosima leucotaeniella*, Malaysia 6853

**Echinochloa stagnina**, *Enosima leucotaeniella*, Malaysia 6853

**Echinochloa utilis**  
Delphacidae, resistance 565  
extracts, antifedants, Delphacidae 565

**Echinocnemus squameus**  
control 7715  
rice  
China 7715, 9735  
damage 7715, 9735

**Echinoidea**, insecticides, effects 2297

**Echinoparyphium cinctum**  
hosts, *Lymnaea auricularia* 8404  
taxonomy, synonyms 8404

**Echinops**, *Phytomyza bipunctata*, Belgium 2025

**Echium plantagineum**  
biological control, Australia 5714  
biological control agents, evaluation 5714  
*Ceutorhynchus*, France 5714

**Echium vulgare**  
Araneae, Switzerland 2759  
*Longitarsus melanurus*, USA 9302  
*Pachycerus cordiger*, France 2745

**Economic thresholds**  
Aphididae  
cereals 9541  
rape 9911  
wheat 2412, 3430, 10690  
*Aphis gossypii*, cotton 2640  
*Argyrotaenia ljungiana*, pome fruits 11853  
arthropod pests  
pome fruits 7808  
vegetables 1298  
*Aulacophora indica*, melons 1582  
*Chilo suppressalis*, rice 9733  
*Chorthippus dubius*, grasses 8675  
Coleoptera, rice 9728  
*Contarinia lentis*, lentils 1481  
*Contarinia sorghicola*, sorghum 5431  
*Deroceras reticulatum*, maize 6454  
*Diabrotica virgifera virgifera*, maize 4421  
*Empoasca vitis*, grapes 11882  
*Helicoverpa armigera*  
chickpeas 7741  
cotton 6731  
*Hoplocampa testudinea*, apples 11855  
*Hydrellia griseola*, barley 9689  
insect pests, cotton 2636, 4668, 10926  
integrated pest management 9541  
*Leguminivora glycinivorella*, soyabeans 8692

Lepidoptera  
Brussels sprouts 4515  
cabbages 6585, 9800  
*Macrosiphum euphorbiae*, flax 9965

Noctuidae  
field crops 10917  
soyabeans 8691

*Ostrinia furnacalis*, cotton 10919

*Oulema*, wheat 11721

*Oxya chinensis*, rice 8659

**Economic thresholds** cont.  
*Panonychus ulmi*, apples 6633  
pest control 10471  
*Richia albicosta*, maize 1441  
*Scirpophaga incertulas*, rice 9730  
*Sitobion avenae*, wheat 7668  
*Sogatella furcifera*, rice 2447  
*Spodoptera exigua*  
field crops 5496  
sugarbeet 7880  
*Stenotus rubrovittatus*, sorghum 9716  
*Tetranychus urticae*, apples 2550  
*Thrips tabaci*, onions 4504  
*Tipula*, barley 8640  
*Trialeurodes vaporariorum*, *Phaseolus vulgaris* 5461  
Venezuela 7497

**Ecpanttheria indecisa** (see *Hypercompe indecisa*)

**Ectatomma ruidum**  
biochemistry, pheromones 11193  
biology, behaviour 3950, 5134  
Nicaragua 5134  
pastures, Colombia 5457  
*Pheidole radoszkowskii*, interactions 5134  
prey, *Aeneolamia* 5457

**Ectatomma tuberculatum**, biology, behaviour 11324

**Ectemnorhinus group**  
ecology 5075  
Indian Ocean Islands 5075

**Ectinocera borealis**, distribution, Slovakia 10322

**Ectomyelois ceratoniae** (see *Apomyelois ceratoniae*)

**Ectoparasites**  
ecology, communities, models 1220  
North America 1220

**Ectopsocus**  
Mexico 1850  
taxonomy 1850

**Ectropis bistortata**  
morphology, melanism 2876  
UK 2876

**Ectropis crepuscularia**, forest trees, British Columbia 6800

**Ectropis obliqua**  
biology, environmental factors 2005  
ecology, population dynamics 8823  
forecasting 8823  
natural enemies 2119  
parasitoids 8823  
pathogens 8421  
rearing techniques 8421  
tea, China 8823  
Zhejiang 2119

**Ectropis obliqua hypulina**  
China 9529  
control, biological control 9529  
pathogens 9529

**Ecuador**  
*Annona*, insect pests 11908  
cassava, *Cephus erythrocephalus* 2516  
coffee, *Hypothenemus hampei* 6728  
*Heteropsylla* 912  
insects 3928  
*Pithecellobium excelsum*, *Heteropsylla pulchella* 912

**Edessa mediatubunda**  
*Solanum*, Argentina 603  
taxonomy 603

**Edessa rufomarginata**  
*Solanum*, Argentina 603  
taxonomy 603

**Edible fungi**, Acari, China 12050

**Edifenphos**, effects, onions 6572

**Edwardsiana crataegi**  
apples, New Zealand 6637  
insecticides, resistance 6637

**Edwardsiana flavescens**  
potatoes, Hokkaido 7754  
predators 7754

**Edwardsiana rosae**  
apples, New York 4557  
*Typhlocyba pomaria*, interactions 4557

**Efferia**, parasitoids 4839

**Efferia staminea**  
biology 3228  
fields, habitats, Montana 3228  
morphology 3228

**Eggplants** (see *Aubergines*)



- Eggs**, insecticides, residues 8990, 10567  
*Egira curialis*, *Citrus*, California 8787  
*Egretta thula*, pesticides, residues 11624
- Egypt**  
 Acari 11752  
 bananas, arthropod pests 3550  
 cabbages, insecticide residues 11813  
 composts, *Macrocheles zaheri* 9092  
 cotton  
   arthropods 1633  
   *Spodoptera littoralis* 2626, 5602  
 cowpeas, insect pests, predators 9771  
 crops, insecticide residues 2323  
 dates, *Cadra* 3540  
 food plants  
   *Macrotoma palmata* 8617  
   *Zeuzera pyrina* 2396  
 grain stores, insect pests 1768  
 grapes, *Lobesia botrana* 11876  
 insect pests 1272  
 maize 3441  
   fields, predatory insects 5414  
   *Sesamia cretica* 7442  
   *Spodoptera exigua*, predators 5414  
 olives, *Zeuzera pyrina* 1604  
*Orobancha*, biological control, reviews 8008  
 pesticides, usage 10665  
 soil  
   Acari 676  
   Collembola 47  
   soyabeans, Noctuidae 11765  
   *Tamarix nilotica*, Eriophyidae 10949  
 tomatoes 633  
   *Bemisia tabaci* 8738  
   Homoptera 8737  
 vineyards, *Trichogramma evanescens* 11876  
 weeds, *Cicadulina chinai* 10720
- Egyptian clover** (see *Trifolium alexandrinum*)
- Ehrharta erecta**, *Poanes melane* 5402
- Eichhornia crassipes**  
 control, biological control 8984, 11016  
 Dynastinae, Brazil 1120  
 natural enemies, Benin 8984  
*Neochetina eichhorniae* 3692  
 Ethiopia 11018  
*Rhopalosiphum nymphaeae* 1754
- Eichhornia speciosa** (see *Eichhornia crassipes*)
- Eiphosoma viticollae**  
 biology, behaviour 7186  
 hosts, *Spodoptera frugiperda* 7186
- Eisenia fetida**  
 insecticides  
   effects 3383  
   residues 6369
- Ekalux** (see Quinalphos)
- El Salvador**  
 coffee, *Hypothenemus hampei* 9938  
 pawpaws, *Aphis spiraeola* 6697  
*Phaseolus*, *Epilachna varivestis*, natural enemies 8694
- Elachertus**, *Eucalyptus cloeziana*, forests, Minas Gerais 7913
- Elachertus pallidus**, taxonomy, to *Hyssopus* 902
- Elaeis guineensis** (see Oil palms)
- Elaeis oleifera** (see Oil palms)
- Elasmolomus sordidus**, crops 8615
- Elasmopalpus lignosellus**  
*Bacillus thuringiensis*, toxins, toxicity 9515  
 control, chemical control 9721  
 diets 9515  
 ecology, population dynamics, models 686  
 groundnuts, Alabama 686  
 rice, Goias 9721
- Elasmosoma platamonense**, taxonomy, to *Kollasmosoma* 6985
- Elasmucha grisea**  
*Betula* 11985  
 parasitoids 11985
- Elasmucha signoreti**  
 biology, behaviour 3671  
*Hydrangea anomala*, Hokkaido 3671
- Elasmus zehntneri**, sugarcane, habitats, Bihar 6718
- Elateridae**  
 Anhui 10290  
 control, chemical control 1595, 8711  
 ecology, insect communities 10290  
*Eucalyptus*, Espirito Santo 3637  
 fields, UK 3309  
 groundnuts  
   Africa 6713  
   damage 6713  
 India 7007  
 monitoring, traps 3309, 3637  
 morphology, reproductive organs 7007  
 potatoes, Greece 8711  
 predators 611  
 sampling 10904  
 sugarbeet, Czech Republic 5588  
 sugarcane, Florida 10904  
 sunflowers, France 1595  
 sweet potatoes  
   damage 611  
   Honshu 611
- Elatobium abietinum**  
 fertilizers, effects 6794  
*Picea sitchensis* 788  
 damage 2710  
 UK 2710, 6794
- Elatophilus**  
*Pinus*, forests, Mediterranean Region 2697  
 prey, *Matsucoccus* 2697
- Elatophilus hebraicus**  
 distribution, Middle East 9988  
 growth regulators, toxicity 11607  
*Pinus*, forests, Israel 12009  
 prey, *Matsucoccus josephi* 9988, 12009
- Eldana saccharina**  
 biology, development 8618  
 diets 8618, 8818  
 ecology, population dynamics, models 2609  
 food plants 7216, 8618  
*Goniozus indicus*, interactions 2609  
 parasitoids 7216  
 rearing techniques 8818  
 sugarcane  
   resistance 8818  
   South Africa 2609
- Elders** (see *Sambucus*)
- Elechus**  
 hosts, *Nilaparvata lugens* 6482  
 rice, fields, Indonesia 6482
- Elenchidae**  
 morphology 938  
 taxonomy 1829
- Elenchinus japonicus**  
 biology, development 10139  
 hosts, *Sogatella furcifera* 10139
- Elenchus**  
 hosts, *Tagosodes* 3470  
 rice, fields, Colombia 3470
- Elenchus japonicus**  
 ecology 4447  
 rice, Philippines 4447
- Elenchus tenuicornis**  
 hosts, Delphacidae 938  
 morphology 938
- Eleocharis dulcis**, extracts, antifeedants, *Anthonomus grandis* 1404
- Elephantopus mollis**  
 control, biological control 11011  
*Tetreuaresta obscuriventris*, Pacific Islands 11011
- Elettaria cardamomum** (see Cardamoms)  
 pest control 3678
- Eleusine africana** (see *Eleusine indica*)
- Eleusine coracana**  
 Delphacidae, resistance 565  
 extracts, antifeedants, Delphacidae 565
- Eleusine indica**  
*Creatonotos gangis* 3456  
*Listronotus bonariensis*, resistance 6852
- Eligma narcissus**, pathogens 11514
- ELISA**, pesticides, detection 263
- Elisabethiella baijnathi**  
 biology, behaviour 6672-6673  
*Ficus burtt-davyi*  
   pollination 6672-6673  
   South Africa 6672-6673
- Ellychnia corrusca**  
 Maryland 3004  
 microorganisms 3004
- Elmidae**, Switzerland 2038
- Elms** (see *Ulmus*)
- Elodea**, insecticides, effects 2350
- Elodea nuttallii**, insecticides, effects 7614
- Elymoclavine**, effects, *Heliothis virescens* 10017
- Elymus repens**, extracts, toxicity, insect pests 2733
- Elymus smithii**  
 Acrididae, Alaska 3689  
 extracts, antifeedants, Acrididae 7719
- Elytrigia** (see *Elymus*)
- Elytrigia repens** (see *Elymus repens*)
- Emamectin benzoate**, control, *Plutella xylostella*, cabbages 10803
- Embioptera**  
 morphology 2873  
 phylogeny 2873
- Emmalocera depressella** (see *Polyocha depressella*)
- Empenthrin**, metabolism, rats 6352
- Empididae**  
 alpine plants  
   Norway 5705  
   pollination 5705  
 biology  
   behaviour 5033  
   environmental factors 5705
- Empidoidea**, morphology, genitalia 11148
- Emplesis**  
 Australian Capital Territory 7215  
 predators 7215
- Empoasca**  
 biological control agents, evaluation 3716  
 control, chemical control 9771  
 cowpeas, Egypt 9771  
 crops, India 3716
- Empoasca abrupta**, insecticides, toxicity 3338
- Empoasca decipiens**  
*Citrus*, Turkey 1566  
 taxonomy 1566
- Empoasca fabae**  
*Acer rubrum*, resistance 753  
 apples, New York 4553  
 biology, behaviour 3984  
 control, physical control 4553  
 ecology 6026  
   population dynamics 9755  
 food plants, USA 6026  
 genetics, diversity 9745  
 groundnuts, resistance 1606  
 lucerne 3984  
   damage 10750  
   Kansas 9745  
   Missouri 11500  
 New York 11474  
 pathogens 11474, 11500  
*Phaseolus vulgaris*  
   Maryland 9755  
   resistance 2491  
 potatoes 4489  
*Solanum*, resistance 9778  
 soyabeans  
   damage 2484  
   Kentucky 2484
- Empoasca flavescens** (see *E. vitis*)
- Empoasca kerri**  
 biology, environmental factors 11936-11937  
 control, chemical control 8697  
 groundnuts  
   Delhi 9769-9770, 11936-11937  
   resistance 688  
 pigeon peas, Delhi 8697
- Empoasca kraemeri**  
 control  
   chemical control 1485, 8695  
   cultural control 8643  
 cowpeas, Pernambuco 1485  
 field crops, Pernambuco 8643  
 pathogens 11505  
*Phaseolus vulgaris*  
   Colombia 2490  
   Cuba 8695  
   resistance 2490
- Empoasca onukii**  
 monitoring, traps 10908  
 tea, Japan 10908
- Empoasca pirisuga**  
 control, chemical control 7495



**Empoasca pirusuga** *cont.*  
Guangxi 7495  
predators 8384  
tea, Guangdong 7883

**Empoasca viitis**  
biology, phenology 11882  
control, chemical control 7495  
ecology, population dynamics 6666  
fungal insecticides, toxicity 604  
fungicides, effects 11885  
grapes, Italy 6666, 11882, 11885  
Guangxi 7495  
monitoring, traps 6666  
parasitoids 6666  
pathogens 604  
potatoes 604

**Empyia pennata**, biochemistry, neuropeptides 5935

**Empyreuma pugione**  
physiology  
nervous system 982  
senses 4957

**Enallagma cyathigerum**  
ecology 3081  
Norway 3081

**Enarmonia formosana**  
distribution, Washington 1547  
food plants, Washington 1547  
monitoring, traps 1547

**Encarsia**  
control, *Siphoninus phyllireae*, pomegranates 9903  
ecology, population dynamics 3233, 6659  
field crops, habitats, Cape Verde 6659  
hosts  
    *Aleurocanthus spiniferus* 3233  
    Aleyrodidae 4  
    *Unaspis eunymyi* 10001  
monitoring, traps 6659  
morphology 3233  
oranges, orchards, Hunan 3233  
peaches, orchards, Italy 6659  
pomegranates, orchards, Karnataka 9903

**Encarsia aurantii**  
Citrus, orchards, Iran 3553  
hosts, *Aonidiella orientalis* 3553

**Encarsia berlesii**  
fruits, habitats, Italy 11844  
genetics, chromosomes 6118  
hosts, *Pseudaulacaspis pentagona* 6118, 11844, 11956  
monitoring, traps 11956  
parasitoids 11844  
tea, plantations, Japan 11956

**Encarsia cerataphivora**  
hosts, *Cerataphis brasiliensis* 11445  
South East Asia 11445  
taxonomy, new species 11445

**Encarsia citrina**  
Citrus  
    orchards  
        Guangdong 666  
        Italy 11899  
hosts  
    *Aonidiella aurantii* 666  
    *Aonidiella citrina* 11899

**Encarsia fasciata**  
hosts, *Aonidia lauri* 10005  
*Laurus nobilis*, habitats, Italy 10005

**Encarsia formosa**  
biology 7332  
behaviour 3968, 4760  
life cycle 8734  
control  
    Aleyrodidae 8450  
    *Euphorbia pulcherrima* 1716  
    *Bemisia argentifolii*  
        evaluation 8942  
        tomatoes 10817  
    *Bemisia tabaci*  
        greenhouse crops 4759  
        poinsettias 7996, 12033  
        insect pests 7597  
    *Trialeurodes vaporariorum* 4219, 4544  
        fruit vegetables 11823  
        greenhouse crops 2532  
        tomatoes 11826  
    greenhouses, Uzbekistan 11823  
hosts  
    Aleyrodidae 7332

**Encarsia formosa** *cont.*  
hosts *cont.*  
    *Bemisia argentifolii* 8942  
    *Bemisia tabaci* 4760, 7996  
    *Trialeurodes vaporariorum* 3968, 8734  
insecticides, toxicity 7597  
pesticides, nontarget effects, assessment 4093  
rearing techniques 7996

**Encarsia guadeloupea**, morphology 4

**Encarsia hawaiiiana**  
Hawaii 4  
morphology 4  
taxonomy, new species 4

**Encarsia inaron**  
control  
    *Siphoninus phyllireae*  
        pomegranates 9903  
        woody plants 11996  
    pomegranates, orchards, Karnataka 9903

**Encarsia inquirenda**, hosts, Diaspididae 7256

**Encarsia lutea**  
cotton, fields, Israel 5612  
ecology, population dynamics 6659  
field crops, habitats, Cape Verde 6659  
hosts, *Bemisia tabaci* 5612, 6659  
monitoring, traps 6659  
peaches, orchards, Italy 6659

**Encarsia luteola**  
control, *Bemisia argentifolii*, evaluation 4747, 8942  
hosts  
    *Bemisia argentifolii* 8942  
    *Bemisia tabaci* 4317  
    insecticides, effects 4317

**Encarsia meritoria**, morphology 6175

**Encarsia nigricephala**  
groundnuts, fields, Florida 4631  
hosts, *Bemisia tabaci* 4631

**Encarsia noordami**  
hosts, *Astegopteryx* 11445  
South East Asia 11445  
taxonomy, new species 11445

**Encarsia pergandiella**  
control  
    *Bemisia argentifolii*, evaluation 8942  
    *Trialeurodes vaporariorum*, tomatoes 11826  
groundnuts, fields, Florida 4631  
hosts  
    *Bemisia argentifolii* 8942  
    *Bemisia tabaci* 4631

**Encarsia perniciosi**  
biology, life cycle 2115  
hosts  
    Diaspididae 7256  
    *Quadrapsidiotus perniciosus* 2115

**Encarsia porteri**  
hosts, *Helicoverpa zea* 10706  
maize, fields, Chile 10706

**Encarsia transvena**  
control  
    *Bemisia argentifolii*, evaluation 8942  
    *Bemisia tabaci*, evaluation 6175  
distribution, Italy 6175  
groundnuts, fields, Florida 4631  
hosts  
    *Bemisia argentifolii* 8942  
    *Bemisia tabaci* 4631, 11449  
    morphology 6175

**Encarsia tricolor**, hosts, *Trialeurodes vaporariorum* 7344

**Encarsia vanharteni**  
morphology 4  
taxonomy, new species 4  
Yemen 4

**Encelia farinosa**, *Trirhabda geminata* 10023, 11336

**Enchenopa binotata**  
biology, behaviour 5661  
*Cercis canadensis*, Kentucky 5661

**Enchytraeidae**  
heavy metals 1307  
predators 1307

**Encotoloplus sordidus**, ectoparasites 27

**Encyrtidae**  
distribution, Spain 11378  
hosts  
    Hymenoptera 563

**Encyrtidae** *cont.*  
hosts *cont.*  
    *Neoleucinodes elegantalis* 3565  
    *Pseudaulacaspis pentagona* 11956  
monitoring, traps 11956  
taxonomy 3766  
tea, plantations, Japan 11956

**Encyrtus infelix**  
Fabaceae, Israel 1723  
growth regulators, toxicity 11607  
hosts, Hemiptera 1723

**Endaphis**  
taxonomy  
    synonyms  
        *Occuloxenium* 4593  
        *Pseudendaphis* 4593

**Endaphis maculans**  
biology 4593  
Citrus, orchards, Florida 4593  
hosts, Aphididae 4593, 11898  
morphology 4593

**Endives** (*Cichorium endivia*)  
insecticides, residues 3513

**Endoclitia jianglingensis**  
biology, life history 11973  
*Boehmeria nivea*  
    Hunan 11973  
    yield losses 11973  
control, chemical control 11973

**Endocronartium pini**, vectors, *Pissodes piniphilus* 8910-8911

**Endospermum labios**, *Camponotus quadriceps*, Papua New Guinea 1643

**Endosulfan**  
control  
    *Aleurolobus barodensis*, sugarcane 1613  
    *Anthonomus grandis*, cotton 4654, 5614, 9950  
    *Antigastra catalaunalis*, sesame 7874  
arthropod pests  
    crops 11706  
    jute 5619  
    pastures 11706  
    *Atherigona soccata*, sorghum 3446  
    *Bemisia tabaci*  
        *Capsicum* 10830  
        melons 6696  
        tomatoes 8742  
    *Biprorulus bibax*, lemons 664  
    *Chilo partellus*, sorghum 6475  
    *Chilo tumidicostalis*, sugarcane 11952  
    *Diaphorina citri*, oranges 8783  
    *Helicoverpa armigera*  
        chickpeas 5465, 10771  
        cowpeas 9767  
        pigeon peas 7743, 10773  
        tomatoes 1521  
    *Helopeltis antonii*, cashews 5569  
    *Hypothenemus hampei*, coffee 6728  
insect pests  
    aubergines 9815  
    chickpeas 592  
    cotton 1631, 7896  
    *Cucurbita pepo* 11835  
    peas 1480  
    pigeon peas 593-594  
    soyabeans 11784  
    sugarcane 11951  
    *Lauritrioza alacris* 6809  
    *Laurus nobilis* 6809  
Lepidoptera  
    Brussels sprouts 4515  
    cotton 1634  
    sapidillas 5563  
    *Lipaphis erysimi*  
        Indian mustard 5497, 5698  
        rape 5572  
    *Melanagromyza obtusa*, pigeon peas 7744  
    *Melolontha melolontha* 11549  
    *Monolepta australis* 2650  
    *Mythimna separata*  
        rice 2467  
        wheat 5408  
    *Myzus nicotianae*, tobacco 8826  
    *Myzus persicae*, tobacco 5599  
    *Nezara viridula*, granadillas 1583  
    Noctuidae, field crops 2404  
    *Oulema*, cereals 7647  
    Pentatomidae, rice 1460



**Endosulfan cont.**

## control cont.

- Phytolius avellanae*, hazelnuts 4613  
*Pieris brassicae*  
 cabbages 8726  
 cauliflowers 618  
*Sitona macularius*, peas 2493  
 Thripidae, nectarines 9849  
 Tingidae, oil palms 4623  
*Uroleucon carthami*, safflower 3580

## degradation

- glass 9404  
 soil 3404  
 soil microorganisms 11631

## detection, environment 11678

## dispersion, air 7603

## effects

- Ariophanta bajadera* 6837  
*Barytelphusa guerini* 11635  
*Bemisia tabaci* 4542, 5297, 7528  
*Caliothrips indicus* 11941  
*Clarias batrachus* 8559  
 cotton 9950  
 man 7603  
*Nomuraea rileyi* 4144  
*Paramecium caudatum* 6375  
 rabbits 10585  
 rats 2340, 6360  
*Trichogramma pretiosum* 1337  
 wheat 8629

## formulations, water hardness, effects

3324

## interactions

- cetyltrimethylammonium bromide 3404

sodium chloride 1472

## metabolism

chickpeas 592

*Hyphessobrycon bifasciatus* 7558

## mixtures, effects, cotton 8839

## nontarget effects

- Bellamia dissimilis* 5321  
*Channa punctatus* 10591  
 chicks 8541  
 mice 11631  
 parasitoids 6696  
 predatory arthropods 5614

## residues

- aquatic environment 8595  
 aquatic organisms 5352  
 carnations 8947  
 cauliflowers 618  
 commodities 10577  
*Cuminum cyminum* 11005  
 determination 4806  
 environment 10648  
 fishes 1370, 7579  
 groundwater 8583  
 invertebrates 6369  
 lagoons 3402  
 leafy vegetables 3513  
 pigeon peas 593  
 rivers 4327, 4329  
 sediment 484, 5368  
 soybeans 6531  
 vegetables 10813  
 water 11674

## resistance

- Anaphes iole* 3222  
 Aphididae 7543  
*Apis* 7585  
*Drosophila* 9833  
*Frankliniella occidentalis* 6275, 6322  
*Helicoverpa armigera* 1327, 2275, 5302, 5609, 9559, 10542-10543, 10557  
*Heliopsis virescens* 4256, 4979, 9584  
*Hypothenemus hampei* 258, 397, 5293, 9583  
*Leptinotarsa decemlineata* 4261  
*Phyllotreta cruciferae* 6338  
*Plutella xylostella* 447  
 sarson 9920

## synergists

- effects, *Helicoverpa armigera* 8501  
 interactions 5283

## toxicity

- Aphis gossypii* 2401  
*Beauveria bassiana* 5247  
 Braconidae 10587  
*Cheilomenes sexmaculata* 11611

**Endosulfan cont.**

## toxicity cont.

- Chrysoperla rufilabris* 4318  
*Clarias batrachus* 2286  
*Cylas formicarius* 11601  
*Daphnia magna* 4305  
*Epilachna vigintioctopunctata* 10015  
 Eulophidae 7577  
*Helicoverpa punctigera* 2274  
*Heliopsis virescens* 9404  
*Hippodamia convergens* 8798  
 Noctuidae 8684  
 Pentatomidae 1472  
*Sitophilus oryzae* 5283  
 sorghum 2437  
*Trichiona picea* 9557

**Endrin**

## degradation, soil 8593

## effects

rats 2287

small mammals 1376

## movement, marine environment, models

9632

nontarget effects, *Mergus serrator* 8537

## residues

aquatic environment 8595

fishes 7579

honey 8572

milk 6863, 8517

*Perna viridis* 10606

salt marshes, sediment 4344

sediment 5368

*Sigmodon hispidus* 8540

water 492

toxicity, *Apis mellifera* 3361**Endrosia sarcitrella**, growth regulators,

## effects 6875

**Engelmann spruce** (see *Picea engelmannii*)**Ennominae**

Europe 6999

morphology, pupae 6999

**Enoplognatha ovata***Boronia megastigma*, habitats, Tasmania 1737

ecology 202

prey, *Ctenarytaina thysanura* 1737

UK 202

**Enosima**, taxonomy 5784**Enosima leucotaeniella**control, *Echinochloa*, evaluation 824*Echinochloa*, Malaysia 6853taxonomy, synonyms, *E. neesimella* 5784**Enosima neesimella**, taxonomy, synonyms,of *E. leucotaeniella* 5784**Ensifera**, Mongolia 5098**Enterobacter agglomerans**hosts, *Melanoplus sanguinipes* 4141*Schistocerca gregaria*, symbiosis 11502**Enterolobium contortisiliquum**,*Lochmaeocles sladeni*, South America 7929**Entomobrya marginata**, *Pinus*, wood, New

South Wales 1695

**Entomogenous fungi***Absidia corymbifera* 6722*Acompsomyces* 1257*Aschersonia* 4759*Aschersonia aleyrodii* 2580, 9508*Ascosphaera prolipepa* 2164*Aspergillus* 10454*Aspergillus candidus* 6708*Aspergillus flavus* 6235*Aspergillus fumigatus* 11526*Basidiobolus ranarum* 3261*Beauveria* 3565, 4157, 11745*Beauveria alba* 10420*Beauveria bassiana* 330, 372, 375-376,

391, 1190, 1258, 1676, 2435, 2485,

2529, 2694, 3256, 3258, 3263-3264,

3279, 3291, 3600, 3630, 4145,

4149, 4159, 4161, 4179, 4202-4203,

5211, 5218, 5226, 5232, 5247,

5385, 5396, 6221, 6226, 6243,

6421, 6460, 6708, 7328, 7391,

7447, 7483, 7487, 7952, 8332,

8410, 8414, 8416, 8420, 8436,

8440, 8443, 8780-8781, 8919, 9468,

9474-9475, 9478, 9481, 9495, 9501,

9599, 9933, 10422, 10431-10432,

10441, 10447, 10468, 10897,

**Entomogenous fungi cont.***Beauveria bassiana* cont.

11475, 11477, 11507-11508, 11514, 11530, 11873

*Beauveria brongniartii* 1969, 2169, 3259,

4161, 5232, 8709, 11504, 11506

*Beauveria sulfurescens* 4195, 4200*Cephalophora tropica* 10420*Cephalosporium* 3274*Conidiobolus* 1261, 1263, 7421*Conidiobolus coronatus* 1261, 9474*Conidiobolus obscurus* 1269, 4147*Conidiobolus thromboides* 4147*Cordyceps* 7866*Cordyceps khaoyaiensis* 3273*Cordyceps militaris* 9478*Cordyceps nutans* 8663, 10415*Cordyceps oncoperae* 4140, 5445*Cordyceps pseudomilitaris* 3273*Corynebacterium* 2440*Entomophaga aulicae* 4197, 7419*Entomophaga maimaiga* 4181, 4698,

9382

*Entomophthora* 2515, 10435*Entomophthora muscae* 7767*Entomophthora planchoniana* 1263,

10435

*Entomophthora schizophorae* 10435*Entomophthora thaxteriana* 3261*Entomophthora virulenta* 3261*Entomophthorales* 3262, 9466*Erynia neophidis* 1269, 10430*Erynia phytonomi* 4460, 6519*Erynia radicans* 1263, 1506, 2195, 4147,

5491, 5594, 11474, 11505, 11814

*Furia shandongensis* 2155*Fusarium* 2440*Fusarium polyphialidicum* 2183*Gibberella pulicaris* 2183*Graphium pseudomiticum* 4153*Hirsutella thompsonii* var. *synnematos*

4149

*Laboulbenia* 1252*Laboulbeniales* 6234, 10442*Metarhizium* 3257, 7422, 7424*Metarhizium album* 8441*Metarhizium anisopliae* 362, 371-372,

604, 1282, 1336, 1393, 1611, 1690,

2307, 2485, 2720, 3264, 3268,

3277-3279, 3291, 4065, 4145, 4149,

4154, 4178-4179, 4188, 4203, 4483,

5213, 5396, 5585, 5658, 6045,

6054, 6222, 6511, 6839, 7426,

7448-7450, 7469-7471, 8332, 8416,

8420, 8441, 9474, 9478, 9496,

10432, 10436, 10440-10441, 10445,

10468, 11502-11503, 11508, 11525-

11526

*Metarhizium anisopliae* var. *anisopliae*

4152, 6243

*Metarhizium flavoviride* 280, 5225, 6237,

7328, 7420, 7427, 7466, 8441,

9474, 9527, 10440, 10446, 10791

*Metarhizium flavoviride* var. *flavoviride*

10432

*Metarhizium flavoviride* var. *minus* 6243*Microhilem oncoperae* 10432*Neozygites* 5479*Neozygites floridana* 6247, 9502*Neozygites fresenii* 1263, 4139, 11964,

11967

*Neozygites parvispora* 8745*Nomuraea cylindrospora* 5235*Nomuraea rileyi* 369, 2182, 2194, 2199,

2600, 4144, 4159, 6227, 6243,

8419, 10762

*Paecilomyces* 2485, 2708, 4157, 4202,

4759, 7866

*Paecilomyces farinosus* 3264, 4154,

4180, 5658, 6243, 6708, 8420,

9480, 9492, 11508, 11513-11514

*Paecilomyces fumosoroseus* 372, 1258,

2199, 4203, 5211, 6243, 7974,

8420, 8443, 9497, 10447, 11526

*Paecilomyces lilacinus* 6243*Pandora blunckii* 11814*Pandora neophidis* 1263*Penicillium citrinum* 8446*Phaulomyces simplicariae* 2154*Sporospora* 7328*Sporothrix insectorum* 719



# Entomogenous fungi cont.

*Stigmatomyces* 1250  
*Strongellsea castrans* 7767  
*Tolypocladium* 4149, 4157, 7430  
*Tolypocladium cylindrosporum* 389  
*Torrubiella* 6239  
*Torrubiella iriomotense* 6239  
*Torrubiella siamensis* 6239  
*Verticillium lecanii* 372, 1249, 1260, 1525, 2169, 4179, 4184, 4189, 4759, 5218, 5658, 6243, 6246, 6607, 7428-7429, 7486, 8433, 8443, 10445, 11900  
*Zoophthora elateridiphaga* 4771  
*Beauveria bassiana* 612  
 bioassays 7423  
 checklists, Israel 6254  
 control

Acrididae, evaluation 6144  
 forest pests 7901  
 insect pests 1277, 1279  
 detection 6261  
 hosts  
 Aphididae 542, 6437, 8826  
*Lemyra* 700  
*Myzus persicae* 4175  
 insects, host parasite relationships 7383  
 pest control 10468  
 pesticides, effects 2335  
 tobacco, fields, Greece 8826

# Entomology

literature, languages 4812  
 new journals 9046  
 Portugal, conferences 3720  
 research 8249  
 research institutes 5759

# Entomopathogenic bacteria

*Bacillus* 6272, 8332  
*Bacillus cereus* 3280  
*Bacillus coagulans* 370  
*Bacillus megaterium* 8431  
*Bacillus popilliae* 791, 2187, 5219, 10441  
*Bacillus sphaericus* 1265, 4164  
*Bacillus subtilis* 370  
*Bacillus thuringiensis* 262, 364, 387, 391, 559, 702-703, 739, 745, 1492, 1536, 2160, 2162, 2176, 2181, 2185, 2196, 2198, 2211, 2213-2214, 2632, 2780, 3149, 3156, 3265-3267, 3274-3276, 3542, 4158, 4166, 4172, 4210, 4361, 4570, 4679, 4684, 4701, 4720, 5210, 5222, 5234, 5239-5240, 5244, 5522-5523, 6119, 6244, 6248, 6256, 6259, 6339, 6460, 6700, 7382, 7387, 7434-7435, 7453-7454, 7464, 7468, 7472, 7490, 7500-7501, 7767, 7789, 7794, 7956, 8424, 8432, 8437, 8931, 9461, 9463, 9472, 9500, 9504, 9510, 9515, 9520-9521, 9530, 9571, 9581, 9713, 9783, 9785, 10404, 10407, 10413, 10418, 10425, 10433, 10437-10438, 10468, 10497, 10526, 10548, 10705, 10912, 11485, 11491, 11495, 11498, 11519, 11521, 11527, 11529, 11532, 11577, 11588, 11592  
 reviews 385

*Bacillus thuringiensis* subsp. *aizawai* 357, 370, 1245, 3269, 3546, 4204, 5231, 6245, 8407, 10539, 11515  
*Bacillus thuringiensis* subsp. *entomocidus* 370, 8407  
*Bacillus thuringiensis* subsp. *galleriae* 367, 5243, 11517, 11522  
*Bacillus thuringiensis* subsp. *israelensis* 370, 1266, 3280, 5229, 9465, 11520  
*Bacillus thuringiensis* subsp. *japonensis* 4163, 4165, 6251  
*Bacillus thuringiensis* subsp. *japonensis* 7456  
*Bacillus thuringiensis* subsp. *japonensis* 8718, 10418  
*Bacillus thuringiensis* subsp. *kenyae* 370, 1268  
*Bacillus thuringiensis* subsp. *kurstaki* 357, 370, 756, 1245, 2074, 2172, 2192, 2569, 3255, 3269-3270, 3540, 3546, 4160, 4185, 4192, 4206, 4424, 4511, 4515, 4527, 4665,

# Entomopathogenic bacteria cont.

*Bacillus thuringiensis* subsp. *kurstaki* cont.  
 4673, 5414, 5645, 6229, 6256, 6337, 6459, 6463, 6514, 6821, 7458, 7463, 7577, 7777, 7960, 8424, 8431, 8543, 8865, 8929, 9512, 9516, 9568, 9839, 9854, 9974, 10351, 10506, 10539  
*Bacillus thuringiensis* subsp. *kurstaki* 10540  
*Bacillus thuringiensis* subsp. *kurstaki* 11494, 11510, 11515, 11571, 11731, 11864  
*Bacillus thuringiensis* subsp. *morrisoni* 7386, 10418  
*Bacillus thuringiensis* subsp. *san diego* 2156  
*Bacillus thuringiensis* subsp. *sotto* 370  
*Bacillus thuringiensis* subsp. *tenebrionis* 2480, 4185, 4465, 4481, 6162, 6558, 6612, 9567, 9775-9776, 10358, 10421, 10506  
*Bacillus thuringiensis* subsp. *tenebrionis* 11479  
*Bacillus thuringiensis* subsp. *tenebrionis* 11777, 11794, 12027  
*Bacillus thuringiensis* subsp. *thompsoni* 7385  
*Bacillus thuringiensis* subsp. *thuringiensis* 2781, 6124, 6559, 7458, 9523, 11794  
*Bacillus thuringiensis* subsp. *tolworthi* 357, 10421  
*Bacillus thuringiensis* subsp. *wuhanensis* 11517  
*Bacillus thuringiensis* subsp. *yunnanensis* 8326  
*Enterobacter agglomerans* 4141  
*Lactobacillus rhamnosus* 370  
*Photobacterium* 7410, 9490  
*Photobacterium luminescens* 7404, 7417, 9503  
*Providencia rettgeri* 9490  
*Rickettsia* 2197  
*Serratia* 10423  
*Serratia entomophila* 2167, 7471, 9462, 9506  
*Serratia marcescens* 2176, 9513  
*Serratia proteamaculans* 9506  
*Wolbachia* 3198, 11518  
*Wolbachia pipiens* 7461  
*Xenorhabdus* 7410  
*Xenorhabdus nematophilus* 4190, 11509  
 control, forest pests 7901  
 hosts, *Catopsilia pomona* form *crocale* 4762  
 pest control 10468

# Entomopathogenic protozoa

*Chytridiopsis typographi* 7957  
*Gregarina alphitobii* 2158  
*Leptomonas* 7390  
*Leptomonas seymouri* 7390  
*Mattesia* 7436  
*Mattesia alphitobii* 2158  
*Microspora* 4187, 6748, 10419  
*Microsporidium sitophilii* 2770  
*Nosema* 360, 363, 366, 1679, 5475, 7436, 9469, 9471  
*Nosema aenescens* 11531  
*Nosema apis* 4123  
*Nosema bombycis* 366, 2176, 5205, 5207, 9460, 9470  
*Nosema bordati* 2129, 2190  
*Nosema carpocapsae* 8411  
*Nosema costelytrae* 9460  
*Nosema empoascae* 11500  
*Nosema fumiferanae* 9568  
*Nosema furnacalis* 2179, 9482, 9493  
*Nosema locustae* 276, 6144, 6225, 8412, 11528  
*Nosema marucae* 3449, 6242  
*Nosema mesnili* 10414  
*Nosema pyrausta* 4423, 10370  
*Nosema serbica* 1679  
*Vairimorpha* 366  
*Vairimorpha necatrix* 5209  
*Nosema* 368  
 control  
 forest pests 7901  
 stored products pests 8016

# Entomopathogens

France, conferences 10062  
 Scolytidae, interactions, books 5778  
*Entomophaga aulicae*  
 biochemistry 7419  
 biology, environmental factors 10428  
 hosts  
*Lambdina fiscellaria* 10428  
 Lepidoptera 4197  
*Entomophaga maimaiga*  
 biology, environmental factors 4181  
 control, *Lymantria dispar* 9382  
 extraction 4698  
 hosts, *Lymantria dispar* 4181, 4698  
*Entomophilic nematodes* 11067  
*Agarmeris decaudate* 6144  
*Agarmeris unka* 10448  
*Allantonema mirabile* 10452  
*Bradynema rigidum* 10452  
*Bursaphelenchus mucronatus* 5674  
*Contortylenchus geniticolus* 5248  
*Heterorhabditis bacteriophora* 791  
*Heterorhabditidae* 4182, 4196, 10469, 11489  
*Heterorhabditis* 378, 541, 1617, 2189, 2204, 3600, 4136, 4176, 4574, 5580, 6257, 6616, 7395, 7398, 7400-7401, 7403, 7406, 7409, 7411, 7973, 8406, 9490, 10450, 10455-10457, 10470, 10934, 11389  
*Heterorhabditis bacteriophora* 377-379, 687, 2186-2187, 2189, 2220, 2396, 2517, 4182, 4194, 4265, 5580, 7452, 9522, 9746, 9824  
*Heterorhabditis heliothidis* 2396, 6562  
*Hexameris* 330, 810, 6258  
*Hexameris agrotis* 3254  
*Howardula aoronymphium* 358, 6240  
*Mermis subnigricans* 6144  
*Mermithidae* 2119, 2187, 10441  
*Micoletzkyia vidalae* 7479  
*Neoalectana* 687  
*Neoalectana feltiae* 1617  
*Noctuidonema guyanense* 2188, 6236  
*Omormis sinensis* 2201  
*Phasmarhabditis hermaphrodita* 546, 4136, 10810  
*Photobacterium* 7485  
*Rhabditidae* 10441  
*Steinernema* 361, 2186, 4176, 4182, 6562, 6616, 7398-7400, 7409, 7411, 7418, 8406, 9746, 10470  
*Steinernema anomali* 6257, 9824  
*Steinernema bibionis* 813, 2157, 2189, 2203, 2220, 6839  
*Steinernema carpocapsae* 1246-1247, 2189, 2220, 2396, 3490, 4214, 4755, 5249, 5482, 5580, 5677, 6257, 7475, 7583, 7973, 8409, 8415, 8418, 8428, 9746, 9824, 10417, 10457, 10789, 12037  
*Steinernema feltiae* 791, 2178, 3683, 4136, 4214, 5677, 6257, 6838, 7408, 7413, 7830, 7993, 8415, 9824  
*Steinernema glaseri* 379, 2189, 4214, 4265, 7475, 8415, 8417, 9824  
*Steinernema kraussei* 5677, 7381  
*Steinernema kushidai* 7480  
*Steinernema riobravii* 2436, 4214, 8428, 9702, 9952, 11489  
*Steinernema scapterisci* 4756, 5250, 10449  
*Steinemematidae* 4182, 4196, 7412, 10469  
*Tubanaea quadridentata* 2202  
*Wachekirylenchus bembidi* 10452  
*Wachekirylenchus boviensis* 10452  
*Xenorhabdus* 7485  
 bacteria, interactions 5206  
 bioassays 7414  
 biochemistry 7416  
 control  
 arthropod pests, horticultural crops 10465  
 Diptera, evaluation 7415  
 forest pests 7901  
 insect pests, reviews 1262, 3289  
 Sesiidae, *Cornus florida* 2675  
 distribution, Switzerland 7407  
 ecology, habitats 4182  
 encapsulation 11389



- Entomophilic nematodes cont.**  
 hosts  
*Ips typographus* 7957  
*Microcerotermes championi* 3685  
*Nilaparvata lugens* 6482  
 pesticides, effects 2335  
 research 7402
- Entomophthora**  
 hosts, *Tetranychus urticae* 2515  
 morphology, spores 10435
- Entomophthora chromaphidis**, hosts, *Myzus persicae* 4175
- Entomophthora muscae**, hosts, *Delia* 7767
- Entomophthora planchoniana**  
 hosts, *Brevicoryne brassicae* 1263  
 morphology, spores 10435
- Entomophthora schizophorae**, morphology, spores 10435
- Entomophthora thaxteriana**  
 biochemistry 3261  
 morphology 3261
- Entomophthora virulenta**  
 biochemistry 3261  
 morphology 3261
- Entomophthorales**  
 morphology 3262  
 taxonomy, phylogeny 9466
- Entomopoxvirinae**  
 control, Acrididae, evaluation 4213  
 electron microscopy 9499  
 genetics  
   genes 11483  
   reviews 9464  
 hosts  
   Acrididae 4213  
   *Adoretus versutus* 1264, 7884  
   *Amsacta moorei* 8442  
   *Ips typographus* 10439  
   Lepidoptera, cell lines 8442  
   *Melolontha melolontha* 11483  
   *Mythimna separata* 5208  
   *Ocnogyna baetica* 7432  
   morphology 4199
- Entomopoxvirus**  
 control, Lepidoptera, evaluation 2173  
 hosts  
   Lepidoptera 7329  
   *Ocnogyna baetica* 330, 2173  
   Orthoptera 7329
- Environment**  
 growth regulators, residues 4331  
 insecticides  
   effects 2253, 7625  
   nontarget effects 11663  
   residues 2047, 11672  
 organochlorine compounds, residues 1184  
 pesticides  
   effects 895, 1792, 3401, 11669-11670  
   reviews 10662  
   nontarget effects 10665  
   residues 510, 7608, 10064  
   biosensors 8587
- Environmental management**, books 895
- Enyo ocypte**, parasitoids 8082
- Enzyme inhibitors**  
 effects, insect viruses 10412  
 toxicity, Noctuidae 4923
- Eohaustorius estuarius**, insecticides, effects 3377
- Eoreuma loftini**  
 biology  
   behaviour 6720  
   environmental factors 9704, 9925  
   reproduction 9138, 9926  
 control, chemical control 6719  
 maize, Mexico 9704  
 parasitoids 4827  
 sugarcane 9925  
   Texas 6719-6720, 9926
- Eotetranychus carpini**  
 control, chemical control 1557  
 grapes, France 1557  
 hazelnuts 9907
- Eotetranychus celis**  
*Broussonetia papyrifera*, Anhui 1830  
 distribution, China 1830
- Eotetranychus coryli**  
 biology 11917  
 control, chemical control 11917  
 hazelnuts  
   damage 11917
- Eotetranychus coryli cont.**  
 hazelnuts cont.  
   Poland 11917
- Eotetranychus kankitus**, predators 8376
- Eotetranychus pruni**  
 distribution, Slovakia 7280  
 ecology, population dynamics 9344  
 tree fruits, China 9344
- Eotetranychus willamettei**  
 control, *Tetranychus pacificus*, grapes 11880  
 ecology, interspecific competition 11880  
 grapes  
   California 11880  
   resistance 11880
- Eotrichia titanis**, pathogens 11525
- Epanerchodus japonicus**, biochemistry, chemical composition 7105
- Epermeniidae**, UK 8318
- Ephedra**, *Neotaphos rachelis*, Chile 5688
- Ephedra trifurca**, *Lasiptera ephedricola*, galls 6822
- Ephedrus californicus**  
 biology  
   behaviour 7343, 7351  
   development 184  
 hosts  
   *Acyrtosiphon pisum* 7343  
   Aphididae 184, 7351
- Ephedrus cerasicola**  
 biology, behaviour 5384  
 control  
   *Aphis gossypii*, evaluation 9826  
   *Myzus persicae*, evaluation 6269  
 hosts, Aphididae 5384
- Ephedrus persicae**  
 fields, habitats, Korea Republic 7355  
 hosts, *Aphis glycines* 7355  
 hyperparasitoids 7355
- Ephedrus plagiator**  
 control, *Diuraphis noxia*, wheat 11725  
 distribution, Washington 8368  
 fields, habitats, Korea Republic 7355  
 hosts  
   *Aphis glycines* 7355  
   *Diuraphis noxia* 8368  
   *Myzus persicae* 9446  
   *Schizaphis graminum* 563  
   hyperparasitoids 7355  
   kairomones 9446  
   parasitoids 563  
   sorghum, fields, France 563  
   wheat, fields, Colorado 11725
- Ephemeroptera**  
 insecticides, effects 8557  
 morphology 2873  
 phylogeny 2873
- Ephestia calidella** (see *Cadra calidella*)
- Ephestia cautella** (see *Cadra cautella*)
- Ephestia elutella**  
 carbon dioxide, effects 5757  
 dates, commodities, Iraq 851  
 monitoring, traps 851  
 pathogens 2781
- Ephestia figulilella** (see *Cadra figulilella*)
- Ephestia kuehniella**  
 biological control agents, evaluation 2219  
 biology  
   phenology 6878  
   sounds 6036  
 control 11046  
   chemical control 5744, 6881  
   physical control 2771  
   dates, commodities, Iraq 851  
   ectoparasites 2219  
   flour mills, Italy 6878  
   flours 6880, 11046  
   fungi, interactions 6878  
   genetics  
     chromosomes 3890  
     satellite DNA 5004  
   monitoring, traps 851, 6878  
   morphology  
     eggs 53, 6995  
     sense organs 2878  
   parasitoids 190, 1215, 1337, 4118, 5031, 5420, 7363, 8280, 8389, 9432, 10367  
   pathogens 53  
   pheromones 11046  
   predators 1069, 4565
- Ephestia kuehniella cont.**  
 stored products 2771  
 UK 5744  
 wheat, commodities 840
- Ephippiger ephippiger**, physiology, sound production 990
- Ephydriidae**, biology, reviews 7154
- 4"-Epi-methylamino-4"-deoxyavermectin benzoate**, control, *Chrysodeixis includens* 1474
- Epiacanthus isiharai**  
*Artemisia vulgaris*, Honshu 6944  
 taxonomy, new species 6944
- Epiacanthus ohdairensis**  
*Artemisia vulgaris*, Honshu 6944  
 taxonomy, new species 6944
- Epiacanthus satoi**  
*Salix*, Honshu 6944  
 taxonomy, new species 6944
- Epiblema scudderiana**  
 biochemistry, enzymes 4918, 6078  
 physiology, cold resistance 4911
- Epicaerus**, potatoes, Costa Rica 601
- Epicauta funebris**  
 lucerne  
   Kansas 6520  
   resistance 6520
- Epicauta occidentalis**  
 control, cultural control 10749  
 lucerne  
   Kansas 4459, 6520, 10749  
   resistance 6520
- Epichlorops**, taxonomy 10093
- Epidendrum × obrienianum**, *Stethopachys formosa*, Australia 12039
- Epidinocarsis lopezi**  
 biology, behaviour 5157  
 cassava, fields, Nigeria 1498  
 control, *Phenacoccus manihoti*, cassava 6567  
 hosts, *Phenacoccus manihoti* 1498, 3837, 5157
- Epilachna**  
 Asia 9116  
 morphology, reproductive organs 9116
- Epilachna admirabilis**  
 Asia 9116  
 Cucurbitaceae, Honshu 1744  
 ecology, population dynamics 1744  
 morphology, reproductive organs 9116  
*Shivaphis celti*, interactions 1744
- Epilachna argus**, distribution, Turkey 1149
- Epilachna borealis**  
 biology, behaviour 6621  
*Cucurbita texana*, Delaware 6621
- Epilachna chapini**  
 Asia 9116  
 morphology, reproductive organs 9116
- Epilachna duodecimpunctata**  
*Aegle marmelos*, Uttar Pradesh 9662  
 growth regulators, effects 11652  
 mulberries, Uttar Pradesh 9662
- Epilachna fallax**, morphology, reproductive organs 9116
- Epilachna flavicollis**  
 Asia 9116  
 morphology, reproductive organs 9116
- Epilachna insignis**  
 biology 8449  
 control 8449
- Epilachna niponica**  
*Cirsium niponicum*, Honshu 2017  
 ecology, population dynamics 2017  
 monitoring, mark release recapture 2017
- Epilachna varivestis**  
 biochemistry  
   alkaloids 10166  
   secretions 2916, 9180  
 biology 4476  
   behaviour 6528  
   development 9546  
 ecology, population dynamics 9755  
 food plants 6528  
 natural enemies 8694  
*Phaseolus*, El Salvador 8694  
*Phaseolus lunatus* 9546  
*Phaseolus vulgaris* 6543  
   Maryland 4476, 9755  
 plant extracts, effects 1725  
 plant pathogens, transmission 6543  
 proteinase inhibitors, effects 9546



- Epilachna varivestis* cont.**  
soyabeans, resistance 6528, 9751, 10756
- Epilachna vigintioctopunctata***  
aubergines 7793, 10015  
Andhra Pradesh 9815  
Himachal Pradesh 9816  
resistance 9817  
Uttar Pradesh 8744  
West Bengal 9817  
biology, environmental factors 8744  
control, chemical control 5476, 9815  
insecticides, toxicity 7793, 10015  
parasitoids 9816  
plant extracts, antifeedants 10016  
potatoes, West Bengal 5476
- Epilachna yasutomii***  
*Caulophyllum robustum*  
Japan 4778  
resistance 4778  
food plants 4493  
interactions 4778  
potatoes, Honshu 4493
- Epilachninae***  
Taiwan 5789  
taxonomy 5789
- Epilachnini***  
taxonomy 2831  
Yunnan 2831
- Epilobium hirsutum***  
*Mompha divisella*  
galls 6027  
UK 6027
- Epinotia fraternana***  
*Abies grandis*, UK 2842  
parasitoids 2842
- Epinotia nigricana***  
*Abies alba*, Italy 9995  
biology, behaviour 9995  
parasitoids 9995
- Epipemphigus imaicus***, taxonomy 23
- Epipemphigus marginalis***  
*Populus ciliata*  
galls 23  
Uttar Pradesh 23  
taxonomy, new species 23
- Epiphyas postvittana***  
apples, New Zealand 3536, 7820  
biology, behaviour 11320  
control 10869  
chemical control 6628, 6692  
controlled atmospheres 9012  
integrated control 5517  
mating disruption 7820  
fruits, New Zealand 6628  
grapes, Australasia 10869  
kiwifruits, New Zealand 6692  
monitoring, traps 3310, 3536, 5377, 6286  
New Zealand 6286, 9012  
orchards, New Zealand 3310, 3536, 5254  
pheromones 5377  
physiology, pheromones 968, 9654  
pome fruits, Victoria 5517  
predators 5254
- Epiphytes***, Formicidae, interactions 3690
- Epircania melanoleuca***  
biology, environmental factors 11943  
control, *Pyrilla perpusilla*, sugarcane 3593-3594  
ecology, population dynamics 331  
hosts, *Pyrilla perpusilla* 331, 11943  
sugarcane, plantations, India 3593-3594
- Epirrria autumnata***  
*Betula*  
Finland 6750  
Sweden 4691  
*Betula pubescens*  
damage 11984  
Finland 11984  
biology, behaviour 9181  
ecology  
habitats 6750  
population dynamics, models 1135  
*Eriocrania*, interactions 4691  
forests, Estonia 9181  
pheromones 9181
- Epistrophe nitidicollis***  
faba beans, fields, Belgium 7734  
prey, *Aphis fabae* 7734
- Episyrrhus balteatus***  
apples, orchards, Himachal Pradesh 6645  
biology 7676
- Episyrrhus balteatus* cont.**  
biology cont.  
behaviour 7185  
life history 8824  
cereals, fields, Germany 8625  
ecology  
habitats 832  
population dynamics 8625, 8824  
models 7662  
growth regulators, effects 11652  
hedges, UK 7185  
insecticides, toxicity 4308  
maize, fields, UK 7676  
*Populus*, forests, France 6760  
prey  
*Chrysomela tremula* 6760  
*Diuraphis noxia* 11717  
*Metopolophium dirhodum* 7662  
*Toxoptera aurantii* 8824  
tea, plantations, India 8824  
UK 4308  
weeds, habitats, UK 832  
wheat, fields, France 11717
- Epitimerus pini***  
*Pinus*, Beijing 10104  
taxonomy, new species 10104
- Epitimerus zizyphagus*** (see *Tegolophus zizyphagus*)
- Epitrix***, potatoes, Costa Rica 601
- Epitrix cucumeris***, *Solanum*, resistance 9778
- Epitrix fasciata***, *Datura stramonium*, varietal reactions 3696
- Epitrix hirtipennis***  
ecology, population dynamics 6730  
tobacco, Greece 6730  
(3Z,6Z)-cis-9,10-Epoxyeicosadiene, pheromones, *Tyria jacobaeae* 4941  
(3Z,6Z)-cis-9,10-Epoxyheneicosadiene, pheromones, *Tyria jacobaeae* 4941  
(3Z,6Z,9S,10R)-cis-9,10-Epoxy-3,6-heneicosadiene, pheromones, *Hyphantria cunea* 11703  
(3Z,6Z,9S,10R)-cis-9,10-Epoxy-1,3,6-heneicosatriene, pheromones, *Hyphantria cunea* 11703  
(3Z,9Z)-3,9-cis-6,7-Epoxyheptadecadiene, pheromones, *Tephria arenacearia* 4360  
(6Z,9Z)-6,9-cis-3,4-Epoxyheptadecadiene, pheromones, Geometridae 4360
- Epuraea***  
biology, behaviour 2390  
*Pinus sylvestris*, Sweden 2390
- Equipment*** (see also *Traps*)  
application equipment  
insecticides 10865  
pesticides 9408  
cages, invertebrates 7296  
collectors, *Bactrocera cucurbitae* 7314  
containers  
*Bactrocera cucurbitae* 10348  
biological control agents 6115  
measurement, insects, digestive system, pH 4078  
microlight aircraft, insecticides, application 7315  
monitoring, insects 2575  
olfactometers, *Helopeltis antonii* 7633  
oxygen consumption, arthropods 2051  
pest control 11400  
pesticides, sprayers 3168, 3170  
protective clothing, pesticides 1351, 1354, 2081  
recording instruments, *Phloeotribus scarabaeoides*, pheromones 7310  
samplers, insects 9380  
sampling 7301  
Coleoptera 2077  
pesticides, aerosols 4270  
sensors, pesticides 6132  
spray booms, pesticides 3157, 7494  
sprayers  
deposition 2069  
insecticides 273, 2063-2064, 2067-2068, 6131, 6135-6139, 7323, 8842  
pesticides 3158, 3160-3165, 3167, 3169, 3171  
models 3166  
sticky traps 3145  
trench cutters 4486
- Equipment* cont.**  
video recorders, insects, flight 10347
- Equisetum***, extracts, toxicity, insect pests 2733
- Equisetum hyemale***, extracts, antifeedants, Lepidoptera 11700
- Eragrostis obtusa***, *Messor capensis*, South Africa 8678
- Eragrostis superba***, *Messor capensis*, South Africa 8678
- Erannis defoliaria***  
monitoring, traps 2664  
*Quercus robur*, France 2664
- Erechthias atririvis***, *Sophora japonica*, Honshu 2687
- Erechthiinae***, Japan 3773
- Eremobates palpietulosus***  
biology, behaviour 3063  
prey, arthropods 3063
- Eremocitrus glauca***, *Biprorulus bibax*, Queensland 4585
- Eremophila alpestris***, pesticides, consumption 11645
- Eremorhax magnus***  
biology, behaviour 9314  
prey, *Trimerotropis pallidipennis* 9314
- Eremotermes***, South Asia 11460
- Eremotermes paradoxalis***  
biology, behaviour 11465  
predators 11465  
Rajasthan 11465
- Eresus cinnabarinus***, distribution, Sweden 10301
- Eretmocerus***  
biology, behaviour 11798  
control, *Bemisia argentifolii*, evaluation 6732  
groundnuts, fields, Florida 4631  
hosts  
*Bemisia argentifolii* 11798  
*Bemisia tabaci* 4317, 4631, 6696  
insecticides, effects 4317, 6696  
melons, fields, California 6696
- Eretmocerus californicus***  
biology, behaviour 11798  
control  
*Bemisia argentifolii*, evaluation 6732  
*Bemisia tabaci*, greenhouse crops 4759  
groundnuts, fields, Florida 4631  
hosts  
*Bemisia argentifolii* 11798  
*Bemisia tabaci* 4631, 6696  
insecticides, effects 6696  
melons, fields, California 6696
- Eretmocerus debachi***  
biology 7232  
*Citrus*, orchards, Turkey 11895  
control  
*Parabemisia myricae* 7205  
*Citrus* 11895  
diets 7232  
ecology 7232, 11436  
hosts, *Parabemisia myricae* 445, 7232, 11436  
pesticides, effects 445
- Eretmocerus furuhashii***  
Honshu 3767  
hosts, *Parabemisia myricae* 3767  
taxonomy, new species 3767
- Eretmocerus mundus***  
cotton, fields, Israel 5612  
ecology, population dynamics 6659  
field crops, habitats, Cape Verde 6659  
hosts, *Bemisia tabaci* 5612, 6659, 11449  
monitoring, traps 6659  
peaches, orchards, Italy 6659
- Eretmocerus serius* var. *orientalis***  
ecology, population dynamics 3233  
hosts, *Aleurocanthus spiniferus* 3233  
morphology 3233  
oranges, orchards, Hunan 3233
- Ergoline alkaloids***, effects, *Heliothis virescens* 10017
- Eriastrum diffusum***, *Pogonomyrmex barbatus*, New Mexico 8971
- Eriborus terebrans***  
biology, behaviour 3231  
hosts, *Ostrinia nubilalis* 3231
- Ericerus pela***  
biology, reproduction 7254



- Ericerus pela* cont.**  
ecology, habitats 7254  
Shaanxi 7254
- Erigeron glaucus***  
*Apteriothrips secticornis*, interactions 4774-4775  
insects  
California 6842  
damage 6842
- Erigeron strigosus*, *Lygus lineolaris*** 2638
- Erigone***  
biology, behaviour 6179, 7336  
fields, UK 7336
- Erigone atra***  
biology  
behaviour 3223  
nutrition 11458  
fields, Belgium 3223  
insecticides, effects 7571  
prey  
insect pests 11458  
*Lepidocyrtus lanuginosus* 7571  
rearing techniques 7571
- Erigone dentipalpis***  
biology, behaviour 3223  
ecology, population dynamics 11929  
fields, Belgium 3223  
monitoring, traps 11929  
olives, orchards, Italy 11929
- Erigonidae***  
ecology, population dynamics 11750  
prey, insects 11750  
rice, fields, China 11750
- Erigonidium graminicolum***  
biology, environmental factors 9428  
ecology, habitats 3452  
rice, fields, China 3452
- Erigonum fasciculatum*, *Hemileuca electra***,  
North America 8677
- Erinnyis ello***  
cassava, Mexico 10790  
control, biological control 10790
- Eriobotrya japonica* (see Loquats)**
- Eriocampa ovata***  
biology, defence mechanisms 4125  
predators 4125
- Eriochiton***, taxonomy 4870
- Eriochiton hispidus***, morphology 4870
- Eriochiton hoheriae***  
*Hoheria angustifolia*, New Zealand 4870  
taxonomy, new species 4870
- Eriochiton propepinosus***  
*Dacrydium colensoi*, New Zealand 4870  
taxonomy, new species 4870
- Eriochiton spinosus***, morphology 4870
- Eriococcidae***, ornamental plants, Sicily 12023
- Eriococcus***, parasitoids 9091
- Eriococcus kaki* (see *Acanthococcus kaki*)**
- Eriococcus lagerstroemiae***  
biology, life history 6025  
trees, Korea Republic 6025
- Eriocrania***  
*Betula*  
Finland 4693, 8868  
Sweden 4691  
*Betula alba*, Finland 8867  
*Betula pendula* 738  
*Betula pubescens* 738  
biology  
behaviour 738  
environmental factors 8867  
ecology, population dynamics 4691, 4693, 8868  
*Epirrita autumnata*, interactions 4691  
predators 8868
- Eriocrania haworthi***  
*Betula*, Finland 4693, 8868  
*Betula alba*, Finland 8867  
biology, environmental factors 8867  
ecology, population dynamics 4693, 8868  
predators 8868
- Eriocrania sparrmannella***  
pheromones 11686  
Sweden 11686
- Eriodolius***  
China 9425  
taxonomy 9425
- Eriolaena malvacea*, *Metatarchardia sinensis***,  
Yunnan 22
- Erionota thrax thrax***, bananas, Asia 1563
- Eriophyes***  
food plants  
damage 1543  
galls 1543  
India 1543
- Eriophyes alangii***, taxonomy, synonyms, of  
*E. coimbatorensis* 3727
- Eriophyes antiquorum***, taxonomy, syno-  
nyms, *E. euphorbiae* 3727
- Eriophyes camptothecae***  
*Camptotheca acuminata*, Jiangxi 10097  
taxonomy, new species 10097
- Eriophyes cernuus***  
control, chemical control 3567  
ecology, population dynamics 3567  
*Ziziphus mauritiana*, Uttar Pradesh 3567
- Eriophyes coimbatorensis***, taxonomy, syno-  
nyms, *E. alangii* 3727
- Eriophyes dioscoridis***, predators 9144
- Eriophyes euphorbiae***, taxonomy, synonyms,  
of *E. antiquorum* 3727
- Eriophyes fraxinivorus***  
*Fraxinus excelsior*  
galls 3635  
Irish Republic 3635
- Eriophyes genistae* (see *Aceria genistae*)**
- Eriophyes insidiosus***  
peaches, Mexico 7826  
plant pathogens, transmission 7826
- Eriophyes lionotus***, taxonomy, synonyms, of  
*Vasates oldfieldi* 3727
- Eriophyes macrodonis* (see *Aceria macrodonis*)**
- Eriophyes tiliae tiliae***  
*Tilia europaea*  
galls 7930  
UK 7930
- Eriophyes tulipae* (see *Aceria tulipae*)**
- Eriophyes vitis* (see *Colomerus vitis*)**
- Eriophyidae***  
broadleaves  
galls 10950  
Uttar Pradesh 10950  
ecology, environmental factors 11995  
*Salix lasiolepis*, Arizona 11995  
taxonomy, new species 904  
Yugoslavia 904
- Eriophyoidea***  
catalogues 3727  
ornamental woody plants, galls 1648
- Eriopsis connexa***  
biology 7366  
prey, *Schizaphis graminum* 7366  
rearing techniques 7366
- Eriosoma lanigerum***  
apples  
Australia 6639  
Germany 10842  
New South Wales 7814  
resistance 10844  
South Africa 8764  
UK 8752  
varietal susceptibility 7814, 8752  
West Virginia 651, 4555, 9835  
yield losses 9835  
biology, reproduction 6639  
ecology  
population dynamics 4555  
spatial distribution 651  
insecticides, resistance 8764  
natural enemies 4555
- Erirehinidae***, taxonomy, books 4818
- Eristalis abusivus***  
morphology 5842  
Netherlands 5842
- Eristalis arbustorum***  
morphology 5842  
Netherlands 5842
- Eristalis nemorum***  
morphology 5842  
Netherlands 5842
- Eristalis tenax***  
apples, orchards, Himachal Pradesh 6645  
biology, behaviour 124  
physiology, sense organs 124
- Ernobius punctulatus***  
parasitoids 8913  
Pinopsis, California 10961  
*Pinus radiata*, California 8913  
plant pathogens, transmission 8913,  
10961
- Erotylidae***  
*Eucalyptus*, Espirito Santo 3637  
monitoring, traps 3637  
taxonomy 10114
- Eruca vesicaria***  
*Brevicoryne brassicae*, resistance 9805  
*Lipaphis erysimi* 2603
- Erwinia***, vectors, insect pests 9475
- Erwinia tracheiphila***, vectors, *Acalymma vit-  
iatum* 9822
- Erynina neoaphidis***  
biology, environmental factors 10430  
hosts, *Acyrtosiphon pisum* 1269
- Erynina phytionomi***, hosts, *Hypera postica*  
4460, 6519, 8682
- Erynina radicans***  
biology, dispersal 4147  
control, *Plutella xylostella*, Brussels  
sprouts 5491  
cryopreservation 11505  
hosts  
*Brevicoryne brassicae* 1263  
*Empoasca fabae* 11474  
*Empoasca kraemeri* 11505  
*Gyropsylla spegazziniana* 5594  
*Plutella xylostella* 1506, 2195, 5491,  
11814
- Erynnia tortricis***  
hosts, *Anarsia lineatella* 3539  
stone fruits, orchards, California 3539
- Erynniopsis antennata***  
control, *Pyrrhalla luteola*, *Ulmus* 4707-  
4708, 4711  
parasitoids 4711  
*Ulmus*, California 4711
- Erysimum cheiranthoides*, *Pieris rapae***  
7518
- Erythmelus miridiphagus***  
fields, habitats, Quebec 4110  
hosts, *Lygus lineolaris* 4110
- Erythrina corallodendrum***, insects, Israel  
1723
- Erythroneura elegantula***  
California 7342  
parasitoids 7342
- Erythroneura variabilis***  
grapes, California 11879  
irrigation, effects 11879  
North America 7342  
parasitoids 7342
- Erythrophleum suaveolens***, extracts, effects,  
Coleoptera 4801
- Erythrosin B***, toxicity, *Rhagoletis  
pomonea* 1302
- Erythroxylum suberosum***, extracts, effects,  
*Atta sexdens* 7999
- Eschweilera*, *Carmentia foraseminis***, Panama  
8081
- Esfenvalerate***  
control, Chrysomelidae, fruit vegetables  
4519  
formulations, analytical methods 10333  
interactions, herbicides 10532  
nontarget effects  
*Plutella xylostella*, natural enemies  
4511  
*Rana* 11626  
residues  
fruit vegetables 4519  
rice 566  
resistance  
Hemiptera 7945  
*Leptinotarsa decemlineata* 4261,  
6552, 8495  
toxicity  
*Chrysoperla rufilabris* 4318  
*Hippodamia convergens* 8798  
*Ostrinia nubilalis* 9579  
*Tetranychus urticae* 436
- Espinosa***  
morphology 10935  
*Nothofagus*, galls 10935  
*Nothofagus obliqua*, Argentina 10935
- Essential oil plants***, pest control 6818
- Essential oils***, control, insect pests, reviews  
6296
- Essigella***, taxonomy 4728
- Essigella eastopi***  
*Pinus coulteri* 4728  
taxonomy, new species 4728



- Essigella fusca voegtlini**  
*Pinus ponderosa* 4728  
 taxonomy, new subspecies 4728
- Essigella hillerisiambersi**  
*Pinus jeffreyi* 4728  
 taxonomy, new species 4728
- Esters, effects, *Cacopsylla pyricola*** 10019
- Estigmene acraea**  
 cell lines, pathogens 373, 8442  
 pathogens 7445
- Estonia**  
 field crops, insect pests 10695  
 forests, *Epirrita autumnata* 9181
- Estuala californiensis** (see *Eustala californiensis*)
- Estuaries, insecticides, degradation** 4345
- Eteobalea intermediella**, control, *Linaria dalmatica*, evaluation 6860
- Ethanol**  
 attractants  
*Apomyelois ceratoniae* 4604  
*Dendroctonus pseudotsugae* 9540  
*Hylobius abietis* 758  
 Scolytidae 8994  
*Thanasimus undulatus* 9540  
 mixtures  
 attractants 7905  
 insects 2390  
 tolerance, Drosophilidae 11175
- Ethephon**, control, *Anthonomus grandis*, cotton 8831, 8844
- Ethiofencarb**  
 control, *Myzus nicotianae*, tobacco 8826  
 degradation 10517  
 residues  
 analytical methods 7573  
 determination 4805  
 foods 9604  
 onions, commodities 7573  
 resistance, *Aphis gossypii* 1320, 10550-10551
- Ethion**  
 control  
*Aceria jasmini*, *Jasminum auriculatum* 1736  
*Brevipalpus*, mandarins 2578  
 Eriophyidae, grapes 9869  
 insect pests, sugarbeet 9929  
*Scrobipalpus absoluta*, tomatoes 4530  
 formulations, water hardness, effects 3324  
 residues  
 determination 845  
 groundwater 10652  
 rice, commodities 845  
 rivers 10652  
 toxicity, *Anastrepha fraterculus* 8457
- Ethiopia**  
 cotton, *Bemisia tabaci* 4658  
*Eichhornia crassipes*, *Neochetina eichhorniae* 11018  
 insects 9357  
 sorghum  
*Atherigona soccata* 1447  
*Busseola fusca* 11734  
 fields, *Neotrichoporoides* 1447  
*Spodoptera exempta* 6277
- Ethiophrophos**  
 control, *Dicladyspa armigera*, rice 7707  
 effects  
 fishes 1352  
 rats 8556  
 movement, soil 413  
 toxicity  
*Maladera matrida* 8511  
*Metarhizium anisopliae* 2307
- Ethyl hexanoate**, attractants, *Apomyelois ceratoniae* 4604
- Ethyl 4-methyloctanoate**, pheromones, *Oryctes monoceros* 4371
- Ethyl nicotinate**, attractants, *Frankliniella occidentalis* 3305
- Ethyl parathion**, excretion, *Schistocerca gregaria* 8486
- 3-Ethyl-2,5-dimethylpyrazine**, attractants, *Pheidole pallidula* 7064
- (2E,4E,6E,8E)-7-Ethyl-3,5-dimethyl-2,4,6,8-undecatetraene**  
 attractants, *Carpophilus* 7060  
 pheromones, *Carpophilus davidsoni* 7060
- Ethylene**  
 attractants, *Phloeotribus scarabaeoides* 4628  
 effects, *Phloeotribus scarabaeoides* 8463
- Ethylene dibromide**  
 carcinogens, man 481  
 determination, water 4067  
 effects, rodents 496  
 residues  
 blood, determination 9398  
 commodities, determination 9398  
 crops, commodities 2322
- (3E,5E,7E)-6-Ethyl-4-methyl-3,5,7-decatriene**  
 attractants, *Carpophilus* 7060  
 pheromones, *Carpophilus davidsoni* 7060
- (2E,4E,6E)-5-Ethyl-3-methyl-2,4,6-nonatriene**  
 attractants, *Carpophilus* 7060  
 pheromones, *Carpophilus davidsoni* 7060
- (E)-3-(5-(4-Ethylphenoxy)-3-methyl-3-pentenyl)-2,2-dimethyloxirane**, control, stored products pests 8016
- Etiella zinckenella**  
 control, chemical control 593, 1480, 9771, 11975  
 cowpeas, Egypt 9771  
 ecology, distribution 7214  
*Ginkgo biloba*, Shandong 11975  
 morphology 9119  
 peas  
 resistance 2495  
 Uttar Pradesh 1480  
 sampling 7214  
 Shandong 7214
- Etofenprox**  
 application 10526  
 control  
*Anthonomus grandis*, cotton 9950  
 Aphididae, wheat 3429  
*Bemisia tabaci*, cucumbers 10835  
*Spodoptera exigua*, sugarbeet 7880  
 effects  
 cotton 9950  
*Tribolium castaneum* 8499  
 registration, Poland 10526  
 residues, tea, commodities 6886  
 resistance, *Bemisia tabaci* 11587  
 toxicity  
 insect pests 7541  
*Steinernema carpocapsae* 7583
- Etrinfos**  
 control, arthropod pests, wheat, commodities 4802  
 toxicity, stored products pests 833
- Etrofolan** (see *Isoprocarb*)
- Euagathis**  
 Sunda Islands 9093  
 taxonomy 9093
- Euaresta regularis**  
*Ambrosia polystachya*, Sao Paulo 9  
 taxonomy, new species 9
- Euaresta reticulata**, taxonomy, synonyms, *Tephritis apicata* 9
- Euaresta stigmatica**  
*Ambrosia*, California 12059  
 biology, development 12059
- Euaresta toba**, taxonomy 9
- Euaresta versicolor**  
 Sao Paulo 9  
 taxonomy, new species 9
- Eubazus**, hosts, *Pissodes* 757
- Eublema amabilis**  
 India 5159  
 parasitoids 5159  
 prey, *Kerria lacca* 5159
- Euborelia annulipes**, biology, reproduction 9130
- Euboriella moesta**, biology, behaviour 1084
- Eucallipterus tiliae**  
 parasitoids 8887  
*Tilia*  
 California 8887  
 resistance 8887
- Eucalyptol**  
 toxicity  
*Apis mellifera* 8571  
*Varroa jacobsoni* 8571
- Eucalyptus**  
 arthropods, Sao Paulo 2660  
*Atesta*, Australia 1663
- Eucalyptus cont.**  
 Brazil 1660  
 Coleoptera, Espirito Santo 3637  
 forests  
*Acromyrmex subterraneus*, Minas Gerais 5053  
 Hemiptera, Brazil 1661  
 habitats  
 Chrysopidae, Spain 4674  
 natural enemies, Italy 5639  
*Helopeltis antonii*, Indonesia 1662  
 insect pests  
 Australia 6745  
 Bahia 739  
 Brazil 3629  
 damage 5638  
 Northern Territory 5638  
 Lepidoptera, Brazil 3639  
*Phoracantha*  
 Australia 5172  
 South Africa 9971  
*Phoracantha semipunctata* 9972  
 California 6754, 6814  
 Italy 5639  
 Wingia group, Australia 6981
- Eucalyptus blakelyi**  
*Anoplognathus*, New South Wales 8871  
 insect pests, resistance 6752
- Eucalyptus camaldulensis**  
*Anoplognathus*, New South Wales 8871  
*Atesta dixonii*, Australia 1663  
 insect pests  
 control, chemical control 2662  
 New South Wales 6751  
 resistance 6752  
 insects  
 damage 2662  
 New South Wales 2662  
*Phoracantha semipunctata*  
 California 6753  
 resistance 6753
- Eucalyptus capillosa**  
*Drepanotermes tamminensis* 3636  
 Western Australia 7370  
 forests, *Drepanotermes tamminensis*, Western Australia 11464
- Eucalyptus citriodora**, extracts, repellents, *Ochetomyrmex europunctatus* 1402
- Eucalyptus cladocalyx**  
*Drosophila flavohirta*, South Africa 5682  
*Phoracantha semipunctata*  
 California 6753  
 resistance 6753
- Eucalyptus cloeziana**  
 forests, parasitoids, Minas Gerais 7913  
 Lepidoptera  
 damage 7913  
 Minas Gerais 7913
- Eucalyptus confertiflora**  
 insect pests  
 damage 5637  
 Northern Territory 5637
- Eucalyptus conica**, *Anoplognathus*, New South Wales 8871
- Eucalyptus deglupta**  
 insect pests  
 damage 2658  
 Philippines 2658
- Eucalyptus diversicolor**  
*Phoracantha semipunctata*  
 California 6753  
 resistance 6753
- Eucalyptus ficifolia**, *Drosophila flavohirta*, South Africa 5682
- Eucalyptus globulus**  
*Brevipalpus phoenicis*, resistance 4391  
 habitats, *Brinckochrysa nachoi*, Spain 741  
 insect pests  
 resistance 5641  
 Victoria 5641  
*Phoracantha semipunctata*  
 California 6753  
 resistance 6753
- Eucalyptus gomphocephala**, *Atesta*, Australia 1663
- Eucalyptus grandis**  
*Phoracantha semipunctata*  
 California 6753  
 resistance 6753



- Eucalyptus largiflorens*, *Ateia dixonii*, Australia 1663
- Eucalyptus latifolia*  
insect pests  
damage 5637  
Northern Territory 5637
- Eucalyptus marginata*  
forests, Collembola, Western Australia 3082  
*Perrhida glyphopa*  
resistance 8870  
Western Australia 5640, 8870
- Eucalyptus melliodora*  
*Anoplognathus*, New South Wales 8871  
*Ateia bifasciata*, Australia 1663
- Eucalyptus miniata*  
habitats, Formicidae, Northern Territory 740  
insect pests  
damage 5637  
Northern Territory 5637
- Eucalyptus nitens*  
*Phoracantha semipunctata*  
California 6753  
resistance 6753
- Eucalyptus pellita*, extracts, repellents,  
*Ochetomyrmex auropunctatus* 1402
- Eucalyptus regnans*  
*Chrysophtharta bimaculata*, Tasmania 2663  
plantations, Coleoptera, Tasmania 2663
- Eucalyptus rubida*, *Anoplognathus*, New South Wales 8871
- Eucalyptus saligna*  
*Phoracantha semipunctata*  
California 6753  
resistance 6753  
*Putoniessa variegata* 6963
- Eucalyptus sideroxylon*  
*Anoplognathus*, New South Wales 8871  
*Phoracantha semipunctata*  
California 6753  
resistance 6753
- Eucalyptus sieberi*, Lepidoptera, Tasmania 4675
- Eucalyptus tereticornis*, Uttar Pradesh 2661
- Eucalyptus tetrodonta*, habitats, Formicidae, Northern Territory 740
- Eucalyptus trabutii*  
*Phoracantha semipunctata*  
California 6753  
resistance 6753
- Eucalyptus urophylla*  
Isoptera, Kalimantan 2659  
Lepidoptera  
Minas Gerais 4694  
Para 4695
- Eucalyptus viminalis*  
*Phoracantha semipunctata*  
California 6753  
resistance 6753
- Eucarazzia elegans*  
biology 7971  
morphology 7971  
Rosa, Argentina 7971
- Eucelatoria bryani*  
biology  
environmental factors 328  
reproduction 9442  
hosts  
*Helicoverpa armigera* 328  
Noctuidae 9442
- Eucelatoria dimmocki*  
*Cirsium arvense*, habitats, Maryland 6854  
hosts, *Cassida rubiginosa* 6854, 7360  
Virginia 7360
- Eucelatoriopsis dimmocki* (see *Eucelatoria dimmocki*)
- Euceraphis*  
Michigan 8372  
predators 8372
- Eucheira sociatis*  
*Arbutus xalapensis*, Mexico 794  
biology, behaviour 794  
morphology, larvae 6993
- Euchloe hyantis hyantis*  
heavy metals, toxicity 4767  
*Streptanthus polygaloides* 4767
- Euchrysops cnejus*  
control, chemical control 8697, 11784
- Euchrysops cnejus* cont.  
pigeon peas  
Delhi 8697  
Gujarat 11784
- Eucinetidae**, distribution, Nicaragua 3112
- Eucoilidae**  
distribution, Korea Republic 11079  
taxonomy 11079
- Euconulus fulvus*, predators 223
- Eucoxia cana*, *Cirsium vulgare*, UK 6859
- Eucoxia monitorana*, *Pinus banksiana*, Ontario 7938
- Eucoxia notanthus*  
*Averrhoa carambola* 3568  
monitoring, traps 3568  
pheromones 3568
- Eudemioptis archimedis*  
*Cinnamomum zeylanicum*, Andaman and Nicobar Islands 1718  
parasitoids 1718
- Euderus cushmani*  
hosts, *Anarsia lineatella* 3539  
stone fruits, orchards, California 3539
- Euderus lividus*  
hosts, *Melanagromyza obtusa* 11780  
pigeon peas, fields, Kerala 11780
- Eudocima aurantia*  
ecology, habitats 5708  
*Tinospora smilacina*, Queensland 5708
- Eudocima cocalus*  
ecology, habitats 5708  
*Tinospora smilacina*, Queensland 5708
- Eudocima fullonia*  
biology  
behaviour 660  
development 800  
ecology, habitats 5708  
fruits, Queensland 660  
Menispermaceae 800  
*Tinospora smilacina*, Queensland 5708
- Eudocima jordani*  
ecology, habitats 5708  
*Tinospora smilacina*, Queensland 5708
- Eudocima materna*  
ecology, habitats 5708  
*Tinospora smilacina*, Queensland 5708
- Eudrilus eugeniae*, insecticides, effects 10613
- Eueides isabella dianasa*, passion fruits, Pernambuco 1578
- Eugenia*, Curculionidae, Brazil 11291
- Eugenia copacabanensis*, Cecidomyiidae, Rio de Janeiro 3775
- Eugenia uniflora*  
*Anastrepha suspensa*, Florida 673  
Cecidomyiidae, Rio de Janeiro 3775  
extracts  
effects, *Callosobruchus maculatus* 8952  
insecticidal properties 8952
- Eugenol**  
attractants  
*Diabrotica barberi* 6456  
*Frankliniella occidentalis* 3305  
*Popillia japonica* 6054
- Eugnaptus marginellus* (see *Deporaus marginellus*)
- Euhadra peliomphala*, physiology, environmental factors 2924
- Euhrychiopsis*, *Myriophyllum sibiricum*, Alberta 8004
- Eulamprotes atrella*  
Japan 10106  
morphology 10106  
taxonomy 10106
- Eulecanium transvittatum**  
*Acer negundo*, Turkey 6775  
taxonomy, new species 6775
- Eulophidae**  
apples, orchards, California 2551  
ecology, habitats 4462  
hosts  
insect pests 4462  
*Trypoxylon rogenhoferi* 9264  
taxonomy 2857  
revisions 1807  
*Trifolium pratense*, habitats, Germany 4462
- Eulophus**  
hosts, *Strigina bifida* 5689  
*Magnolia biloba*, habitats, Zhejiang 5689
- Eulophus pennicornis*  
control  
biological control 9614  
*Mamestra brassicae* 9614  
growth regulators, toxicity 9614  
hosts, *Mamestra brassicae* 9614
- Eumasicera**  
*Eucalyptus cloeziana*, forests, Minas Gerais 7913  
hosts, *Leitha anophthalma* 7913
- Eumenidae**, fields, Germany 11344
- Eumenotes obscura**  
biology, development 5686  
*Pharbitis purpurea*, Malaysia 5686
- Eumeta crameri*  
insecticides, antifeedants 2616  
tea 2616
- Eumeta minuscula*  
biology, life history 6777  
*Lithocarpus edulis*, Kyushu 6777
- Eumeta variegata*, insecticides, resistance 10541
- Eumicromus sauteri* (see *Micromus sauteri*)
- Eumolpinae**  
Japan 11080  
taxonomy 11080
- Eumorpha satellita*, parasitoids 8082
- Euneura lachni*  
biology, behaviour 10372  
hosts, Lasiocampidae 10372
- Euodynerus*  
hosts, *Choristoneura fumiferana* 8900  
rearing techniques 8900
- Euonymus europaeus*, extracts, effects, *Aphis fabae* 6410
- Euonymus japonicus*  
*Abraxas grossulariata* 4566  
*Aphis fabae* group, France 1512  
Cecidomyiidae, Japan 6802  
*Homalodisca coagulata* 10003  
*Unaspis euonymi*, Virginia 10001
- Eupalopsellidae**, taxonomy 4847
- Eupalopsis jamesi*  
Citrus, orchards, New South Wales 4847  
prey, *Aonidiella aurantii* 4847  
taxonomy, new species 4847
- Eupatorium*, Mexico 6840
- Eupatorium odoratum* (see *Chromolaena odorata*)
- Eupatorium perfoliatum*, *Ophraella* 1956
- Eupatorium wrightii*, *Oulema variabilis* 917
- Epelmidae**  
ecology, habitats 4462  
hosts, insect pests 4462  
*Trifolium pratense*, habitats, Germany 4462
- Epelmus**  
hosts  
*Dryocosmus kuriphilus* 10366  
*Tephritis arizonensis* 829  
Korea Republic 10366
- Epelmus australiensis*  
hosts, *Contarinia sorghicola* 5428  
insecticides, effects 5428
- Epelmus orientalis*  
biology  
development 10369  
environmental factors 5169  
hosts, *Callosobruchus maculatus* 5169, 10369
- Epelmus popa* (see *E. australiensis*)
- Epelmus urozonus*  
biology, life cycle 5155  
ecology, population dynamics 5155  
Fabaceae, commodities, Delhi 10042  
hosts  
*Bruchidius chloroticus* 10042  
*Dasineura gleditschiae* 5155  
*Dryocosmus kuriphilus* 10366  
Korea Republic 10366
- Epelmus vuilleti*  
biology, behaviour 4482  
*Dinarmus basalis*, interspecific competition 12086  
hosts  
*Bruchidae* 12086  
*Bruchidius atrolineatus* 4482
- Eupeodes confrater**  
biology, behaviour 10378  
Kyushu 10378  
prey, *Pseudoregma bambucicola* 10378



**Eupeodes corollae**

biology 7676  
cereals, fields, Germany 8625  
lucerne, fields, Libya 3486  
maize, fields, UK 7676  
prey  
    Aphididae 542  
    *Diuraphis noxia* 11717  
wheat  
    fields  
        France 11717  
        South Africa 542

**Eupeodes lundbeckii**, ecology, population dynamics 8625

**Euphasiopteryx ochracea**

biology, development 6165  
hosts, *Gryllus* 6165  
physiology, hearing 4960  
*Euphilotes*, evolution 2866

**Euphorbia**

*Aphis* 935  
*Simyra dentinosa*, Yugoslavia 1757  
**Euphorbia cyparissias**, *Oxicesta*  
    geographica, Yugoslavia 819

**Euphorbia esula**

biological control agents, evaluation  
    4787, 12056  
control, biological control 11032  
*Spurgia esulae* 2753

**Euphorbia heterophylla**, *Euschistos heros* 7728

**Euphorbia hirta**, *Spilostethus hospes*, India 8622

**Euphorbia myrsinites**, *Oxicesta*

    geographica, Yugoslavia 819  
**Euphorbia pulcherrima**

*Aleyrodidae* 2717  
    Germany 1716  
*Bemisia tabaci* 4750, 4760  
    Netherlands 4759  
books 9034  
insect pests, Norway 9034  
*Phenacoccus manihoti*, resistance 5480  
*Trialeurodes vaporariorum* 4219

**Euphorbia sequeriana**, *Oxicesta*

    geographica, Yugoslavia 819  
**Euphorbia virgata**, *Oxicesta* geographica,  
    Yugoslavia 819

**Euphranta**, taxonomy 17

**Euphranta canadensis**, morphology 17

**Euphranta mexicana**

    parasitoids 17  
    *Ribes pringlei*, Mexico 17  
    taxonomy, new species 17

**Euphranta toxoneura**

*Salix*  
        galls 7924  
        UK 7924

**Euphydryas anicia** (see *Occidryas chalcadona*)

**Euphydryas chalcadona** (see *Occidryas chalcadona*)

**Euphydryas editha** (see *Occidryas editha*)

**Euphydryas editha bayensis** (see *Occidryas editha bayensis*)

**Euphydryas editha monoensis**, food plants, Nevada 8989

**Euphydryas gillettii** (see *Hypodryas gillettii*)

**Euphydryas phaeton**, *Plantago lanceolata*, New York 6857

**Euphyllura olivina**

biology, oviposition 6711  
genetics, karyotypes 7126  
olives  
    France 6711  
    Tunisia 6711  
Spain 7126

**Euphyllura straminea**

distribution, Turkey 1148  
olives, Turkey 1148

**Eupithecia borealis**

*Allium tricoccum*  
        damage 9791  
    Quebec 9791

**Eupithecia horismoides**

biology 5690  
    *Gunnera tinctoria*, Chile 5690  
morphology 5690

**Eupithecia miserulata**, *Conium maculatum*, Illinois 4783

**Euplectrus**, hosts, *Lemyra* 700

**Eupoecilia ambiguella**

*Botrytis*, interactions 2569  
control  
    biological control 2569  
    chemical control 9876  
    mating disruption 2544, 9862  
fruits, Europe 2544  
grapes

    damage 9876  
        Germany 4577, 5540  
        Italy 2569, 9876  
        Switzerland 9862  
    monitoring, traps 2569  
    parasitoids 7184  
    pheromones 9875  
    predators 4577, 5540

**Eupoedes corollae**, ecology, population dynamics 8625

**Eupoedes lundbeckii**, cereals, fields, Germany 8625

**Euprepoptera**, taxonomy 918

**Euproctis icilia**

    growth regulators, effects 9555  
    insecticides, effects 1326

**Euproctis latifascia**, predators 1620

**Euproctis pseudoconsersa**, pheromones 3832, 10677

**Euproctis scintillans**

biology, development 1589  
food plants 1589

**Eupseudosoma aberrans**

control, chemical control 4695  
*Eucalyptus urophylla*

    Minas Gerais 4694

**Eupseudosoma involuta**

control, chemical control 4695  
*Eucalyptus*, Brazil 1660  
*Eucalyptus urophylla*

    Minas Gerais 4694

    Para 4695

**Eupterote molifera**

    insecticides, effects 5704  
    *Moringa indica* 5704

**Eupterotidae**, taxonomy, revisions 4842

**Eurema blanda silhetana**, *Paraserianthes falcata*, India 2679

**Eurema daira**

    Mexico 1851  
    taxonomy 1851

**Euremeros namkumense**

    hosts, *Eublemma amabilis* 5159  
    India 5159

**Euremeros tumespiraculum**

    hosts, *Eublemma amabilis* 5159  
    India 5159

**Eurhizococcus brasiliensis**

grapes, Brazil 4203  
*Linepithema humile*, interactions 3995

    roses, Santa Catarina 3995

**Eurhynchidae**, taxonomy, books 4817

**Eurithia consobrina**

control, *Mamestra configurata*, evaluation 11540

ecology, environmental factors 11540  
hosts, *Mamestra configurata* 11540

**Eurodryas aurinia**, biology, reproduction 5849

**Europe**

apples  
    insect pests 5521  
    integrated pest management, reviews 5521  
Asteraceae, Curculionidae 8005  
*Atractodes* 8050  
*Bemisia tabaci* 4209  
*Bibionidae* 10309  
*Bucculatrix thoracella* 10952  
*Carabus auronitens* 1881  
*Chorthippus biguttulus* group 9113  
*Chrysogasterini* 4894  
*Chrysophothorus* 9374  
*Coccinella septempunctata* 7359  
*Coleoptera* 6946  
*Diptera* 10298  
*Dolichovespula* 1161  
*Drosophila melanogaster* 1932, 2997  
*Drosophila subobscura* 8223, 10236

**Europe cont.**

forest trees  
    *Caloptilia* 9102  
    insect pests 1647  
*Forficula auricularia*, natural enemies 305  
fruits  
    integrated pest management 1532-1533  
    Tortricidae 2543-2544  
Geometridae 6999  
grasslands, pests 6504  
greenhouse crops, *Frankliniella occidentalis* 7167  
*Gryllus* 9111  
*Gypsophila paniculata*, insect pests 1707  
hazelnuts, arthropod pests 9907  
honey, acaricide residues 9601  
horticultural crops, Agromyzidae 2212  
*Incurvaria vetulella* group 11107  
insecticides  
    legislation 2245  
    usage 2269  
*Leptothorax acervorum* 10234  
lettuces, insect pests 10812  
*Opiliones* 1142  
*Pachycerus cordiger* 2745  
pesticides  
    development 10530  
    legislation 10530  
*Phorbia* 5788  
*Phragmites australis*, arthropods 812  
*Pieris* 7147  
*Pinus*, insecticide residues 2700  
*Pinus mugo*, *Cinara montanica* 1  
*Pinus sylvestris*, *Cinara pini* 1  
plant protection  
    computer techniques 2059  
    legislation 6906  
    reports 6905  
plants, insects 3017  
*Pontania*, natural enemies 10384  
*Pristiphora tenuiserra* 5795  
*Psocoptera* 10028  
*Pterostichus* 947, 8055  
*Quercus cerris*, *Andricus quercuscalcis* 1666  
*Quercus* 5648  
rape, integrated pest management 4616  
*Robinia pseudocacia*, *Phyllonorycter robinella* 2685  
*Salix*, *Pontania aestiva* 4846  
sarson, *Psylliodes chrysocephala* 4620  
*Synacra* 10099  
*Taeniothrips inconsequens* 1150  
*Thecodiplosis brachyntera*, natural enemies 2705  
**European Communities**  
insecticides  
    environmental impact 425  
    legislation 425, 2241-2246  
**European eels**  
insecticides  
    effects 2333  
    metabolism 7559  
**European larch** (see *Larix decidua*)  
**European Union**, pesticides, marketing 10531  
**Europiella**  
Asteraceae, Holarctic Region 11127  
taxonomy 11127  
**Europiella carvalhoi**  
*Artemisia tridentata*, USA 11127  
taxonomy, new species 11127  
**Eurosta solidaginis**  
biochemistry, enzymes 6078, 9159  
biology 3670  
    behaviour 8974  
ecology 7257, 8974  
insects, galls 7257  
parasitoids 7257  
pollutants, effects 6844  
predators 7257  
*Solidago*  
    galls 8974  
    Minnesota 8974  
    New York 3670  
*Solidago altissima* 11023  
Ontario 6844  
**Eurya japonica** (see *Cleyera japonica*)



- Eurybrachys tomentosa*, biology, environmental factors 7235
- Eurydema ornata*, biological control agents, evaluation 386
- Eurydema rugosum*  
biology, environmental factors 232  
rape 232
- Eurydema ventralis*  
distribution, Netherlands 1166  
rice  
  damage 9732  
  Orissa 9732
- Eurygaster austriaca*  
biology 2412  
wheat  
  Italy 2412  
  resistance 1426  
  Yugoslavia 1426
- Eurygaster integriceps*  
biochemistry  
  composition 325  
  vitellins 10190  
cereals, Syria 11714  
control, chemical control 11724  
ecology, population dynamics 537, 3624  
parasitoids 325  
pheromones 4374  
sunn hemp  
  damage 3624  
  Iran 3624  
wheat  
  damage 537  
  Ukraine 537, 11724
- Eurymelidae**  
Australia 6953  
taxonomy 6953
- Eurypelma californicum*, physiology, haemolymph 4946-4947
- Eurystylus*, taxonomy 9075
- Eurystylus argenteiceps*, taxonomy, synonyms, of *E. bellevoeyi* 9075
- Eurystylus bellevoeyi*  
taxonomy  
  synonyms  
    *E. argenteiceps* 9075  
    *E. gallouedeci* 9075  
    *E. occidentalis* 9075  
    *E. parvulus* 9075
- Eurystylus gallouedeci*, taxonomy, synonyms, of *E. bellevoeyi* 9075
- Eurystylus immaculatus*  
biology, development 4434  
sorghum  
  Mali 4434  
  resistance 7685  
  West Africa 7685
- Eurystylus kivuensis*, taxonomy, synonyms, of *E. oldi* 9075
- Eurystylus occidentalis*, taxonomy, synonyms, of *E. bellevoeyi* 9075
- Eurystylus oldi*  
taxonomy  
  synonyms  
    *E. kivuensis* 9075  
    *E. phaopterus* 9075  
    *E. risbeci* 9075
- Eurystylus parvulus*, taxonomy, synonyms, of *E. bellevoeyi* 9075
- Eurystylus phaopterus*, taxonomy, synonyms, of *E. oldi* 9075
- Eurystylus risbeci*, taxonomy, synonyms, of *E. oldi* 9075
- Eurystylus rufocunealis*, taxonomy 9075
- Eurytetranychus buxi*, *Buxus sempervirens*, Poland 1712
- Eurytoma**  
biology 3743  
California 5016  
*Centaurea*, Europe 1225  
China 1219  
grasses, UK 3743  
groundnuts, fields, Maharashtra 11938  
hosts  
  *Approaerema modicella* 11938  
  *Dendrolimus punctatus* 1219  
  Hymenoptera 901  
  *Isocolus* 1225  
  *Melanagromyza obtusa* 11780  
  *Paroxyna genalis* 5016  
  *Procecidochares flavipes* 2726  
morphology 3743
- Eurytoma cont.*  
pigeon peas, fields, Kerala 11780  
taxonomy 901, 3743  
Turkey 901
- Eurytoma amygdali*  
almonds, Greece 11914  
biology, behaviour 11914  
plant extracts, effects 6699
- Eurytoma brunniventris*  
hosts, *Dryocosmus kuriphilus* 10366  
Korea Republic 10366
- Eurytoma gigantea*  
birds, interactions 7257  
hosts, *Eurosta solidaginis* 7257
- Eurytoma pistaciae*  
hosts, *Dryocosmus kuriphilus* 10366  
Korea Republic 10366
- Eurytoma plotnikovi*  
control, chemical control 10006  
*Pistacia chinensis* 10006
- Eurytoma setigera* (see *E. pistaciae*)
- Eurytomidae**  
biology 3743  
ecology 1967  
*Ficus*, South Africa 1967  
grasses, UK 3743  
morphology 3743  
taxonomy 3743
- Euscelidius variegatus*  
morphology, reproductive organs 11154  
oranges, Turkey 10880  
plant pathogens, transmission 5252, 10880
- Euscelimena harpago*, biology, development 76
- Euscelis incisus*  
biology 1079  
plant pathogens, transmission 10811
- Euscelis spiniger*  
distribution, Peru 9902  
guavas, Peru 9902
- Eusepes postfasciatus*  
biology, behaviour, measurement 7307  
distribution, Paraguay 11803  
ecology, habitats 10792  
sweet potatoes  
  Paraguay 11803  
  Ryukyu Archipelago 10792
- Euserica**  
Morocco 6970  
Spain 6970  
taxonomy 6970
- Euschistos heros*  
biology 7728  
food plants 7728
- Euschistus heros*  
biology  
  behaviour 10758  
  environmental factors 9324  
ecology, population dynamics 4472, 5395  
habitats, Parana 5395  
insecticides, toxicity 1472  
pheromones 8602  
soyabeans 10758  
  Brazil 4472  
  Parana 8690  
  resistance 2486  
  Sao Paulo 2486  
  varietal susceptibility 8690
- Euschistus obscurus*  
biochemistry, secretions 1399  
biology, behaviour 1398  
pheromones 1398-1399, 8602
- Euseius**  
*Citrus*, orchards, Southern Africa 1567  
prey, *Scirtothrips aurantii* 1567
- Euseius addoensis*  
*Citrus*, orchards, Southern Africa 1567  
prey, *Scirtothrips aurantii* 1567
- Euseius alatus*, *Citrus*, orchards, Sao Paulo 8786
- Euseius citri*  
*Citrus*, orchards, Southern Africa 1567  
prey, *Scirtothrips aurantii* 1567
- Euseius concordis*, *Citrus*, orchards, Sao Paulo 8786
- Euseius finlandicus*  
acaricides, resistance 4122, 5518  
apples  
  Finland 5518
- Euseius finlandicus cont.*  
apples cont.  
  orchards  
    Germany 6642  
    Poland 5519  
ecology  
  habitats 652  
  population density 6642  
  food plants 4121  
  genetics, transformation 4099  
  insecticides, effects 5519  
  orchards, Finland 652  
prey  
  Tetranychidae 6642  
  *Tetranychus urticae* 4121  
  rearing techniques 4121
- Euseius hibisci*, control, *Frankliniella occidentalis*, evaluation 8452
- Euseius mesembrinus*  
pollen 3220  
rearing techniques 3220
- Euseius orygmus**  
*Citrus*, orchards, Southern Africa 1567  
distribution, Zimbabwe 1567  
prey, *Scirtothrips aurantii* 1567
- Euseius scutalis*, control, *Frankliniella occidentalis*, evaluation 8452
- Euseius stipulatus*  
biology, behaviour 2131  
orchards, Spain 2131  
prey, *Panonychus citri* 2131
- Euseius tularensis*, control, *Frankliniella occidentalis*, evaluation 8452
- Eustala californiensis**  
Mexico 5149  
predators 5149
- Eustenopus hirtus* (see *E. villosus*)
- Eustenopus villosus*  
Asteraceae, Europe 8005  
distribution, Europe 8005
- Eustilicus**  
phylogeny 4820  
Texas 4820
- Eutarsopolipus**  
hosts, *Harpalus* 8364  
Michigan 8364  
taxonomy 8364
- Eutarsopolipus elongatus*  
distribution, North America 8364  
hosts, *Amara aenea* 8364
- Eutectona machaeralis**  
biology, development 8894  
control, chemical control 3625  
insecticides, toxicity 1335  
pathogens 3630  
*Tectona*, Uttar Pradesh 3625  
*Tectona grandis* 3630, 8894
- Eutermes acatjulae*, taxonomy 5797
- Eutetranychus banksi*  
acaricides, resistance 3336  
*Citrus*, Mexico 3336
- Eutetranychus cratis*  
cassava, Congo 6565  
predators 6565
- Eutetranychus orientalis*  
cassava 4483  
*Citrus*  
  Rajasthan 9883  
  varietal susceptibility 9883  
predators 8241
- Eutetranychus amethystinus*  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditschiae* 5155
- Euthyrhynchus floridanus*  
distribution, Mexico 1847  
taxonomy 1847
- Euthystira brachyptera* (see *Chrysoschraon brachypterus*)
- Eutinobothrus brasiliensis*, cotton, Brazil 1629
- Eutrichapion mystriophorum**  
taxonomy, new species 6971  
Vicia, Europe 6971
- Eutrombidiinae**, taxonomy 27
- Eutrombidium africanum**  
hosts, Acrididae 27  
taxonomy, new species 27
- Eutrombidium australiense*  
distribution, Australia 5163  
hosts, Orthoptera 5163



*Eutrombidium centrale*  
  hosts, *Melanoplus* 27  
  taxonomy, new species 27

*Eutrombidium macfarlanei*  
  hosts, *Hieroglyphus daganensis* 27  
  taxonomy, new species 27

*Eutrombidium occidentale*  
  hosts, *Melanoplus* 27  
  taxonomy, new species 27

*Eutrombidium orientale*  
  hosts, *Encotolopius sordidus* 27  
  taxonomy, new species 27

*Eutrombidium robaxui*  
  hosts, *Oedaleus decorus* 27  
  taxonomy, new species 27

*Eutrombidium verdense*  
  hosts, *Oedalus senegalensis* 27  
  taxonomy, new species 27

*Euura amerinae*  
  biology, behaviour 5375  
  ecology, population dynamics 2668  
  plant extracts, attractants 5375  
  *Salix pentandra*  
    Finland 2668  
    galls 2668  
    resistance 2668

*Euura lasiolepis*  
  ecology, population dynamics 4703  
  *Salix lasiolepis*  
    Arizona 4703  
    galls 4703

*Euvarroa sinhai* (see *Varroa sinhai*)

*Euvarroa wongsirii*  
  hosts, *Apis andreniformis* 3790  
  morphology 3790  
  taxonomy 3790

*Euwallacea*  
  Pacific Islands 1810  
  taxonomy 1810

*Euwallacea fornicatus*  
  control, chemical control 10909  
  taxonomy, from *Xyleborus* 1810  
  tea, Tamil Nadu 10909

*Euxoa auxiliaris*  
  parasitoids 11923  
  rape, Alberta 11923

*Euxoa scandens*  
  Canada 4156  
  pathogens 4156

*Euxoa segetum* (see *Agrotis segetum*)

*Euzophera batangensis*  
  morphology 3569  
  *Ziziphus sativa*, Hubei 3569

*Euzophera pinguis*, olives 5579

*Evagetes siculus*, distribution, UK 3120

*Evaniaidea*, taxonomy 1803

*Evarcha*  
  *Boronia megastigma*, habitats, Tasmania 1737  
  prey, *Ctenarytaina thysanura* 1737

*Evarcha albaria*  
  ecology, population dynamics 8820  
  tea, plantations, Hunan 8820

*Everes lacturnus australis*, distribution, Australia 3096

*Evippe*  
  China 5807  
  taxonomy 5807

*Evolocera*  
  biology 6032  
  Mexico 6032

**Ewe milk**, pesticides, residues 7555

*Excavarus*  
  China 9425  
  taxonomy 9425

*Exelastis atomosa*  
  control, chemical control 593, 11784  
  parasitoids 5820  
  pigeon peas  
    Delhi 9760  
    Gujarat 11784  
    Maharashtra 5820, 9764, 11779  
    Rajasthan 11781, 11783  
    resistance 9764, 11779  
    varietal susceptibility 9760  
    yield losses 11783

*Exelastis cervinicolor*, taxonomy 1804

*Exelastis pumilio* (see *Marasmarcha pumilio*)

*Exelastis rhynchosiae*, taxonomy, from *Stenoptilia* 1804

*Exenterus*  
  China 9425  
  taxonomy 9425

*Exenterus adspersus*, China 9425

*Exetasis eichstedtae*  
  biology, development 5154  
  distribution, North America 5154

*Exitianus capicola*  
  oranges, Turkey 10880  
  plant pathogens, transmission 10880

*Exochomus quadripustulatus*  
  biochemistry, chemical composition 9220  
  Citrus, orchards, Yugoslavia 6684  
  predators 9220  
  prey, *Coccus pseudomagnoliarum* 6684

*Exochus atriceps*  
  apples, orchards, Pennsylvania 11846  
  hosts, *Platynota idaeusalis* 11846

*Exomala orientalis*  
  biology, behaviour 1892  
  monitoring, traps 1892  
  pheromones 1892  
  sugarcane, Honshu 1892

*Exorista bombycis*  
  attractants 6272  
  biological control agents, evaluation 6271  
  control  
    integrated control 5730  
    trapping 11553  
  ecology, population dynamics 7375  
  hosts, *Bombyx mori* 5730, 5847, 6271-6272, 7375, 8369, 10340, 11553  
  India 6272  
  natural enemies 6272  
  parasitoids 297, 5730, 6028, 6052, 8369  
  physiology, embryonic development 5847  
  rearing techniques 5179, 10340

*Exorista japonica*  
  biology 3199  
  life history 307  
  China 3199  
  hosts  
    *Dasychira baibarana* 3199  
    *Mythimna separata* 307  
    morphology 3199

*Exorista larvarum*  
  biology, development 7309  
  diets 7309, 11401  
  hosts  
    *Galleria mellonella* 11401  
    insect pests 7309  
    rearing techniques 7309, 11401

*Exorista sorbillans* (see *E. bombycis*)

*Exoristobia philippinensis*  
  attractants 6052  
  control, *Exorista bombycis*, evaluation 6271  
  ecology, life tables 6271  
  hosts, *Exorista bombycis* 6052

*Exothorhis echinocactii*  
  *Opuntia*, habitats, Queensland 4847  
  prey, *Diaspis echinocacti* 4847  
  taxonomy, new species 4847

**Expert systems**  
  cereal grains, commodities, pest control 3143  
  pest control 5253  
  plant protection 6123  
  rice, pest control 6491

*Extatosoma*, taxonomy 899

*Extatosoma carlbergi*  
  *Calliandra surinamensis*, Papua New Guinea 899  
  taxonomy, new species 899

*Extrusanus*, taxonomy 8088

*Extrusanus oryssus*  
  grasses, North America 8088  
  taxonomy, new species 8088

*Eyprepocnemis plorans*  
  Algeria 275  
  biology, reproduction 9134  
  cereals 3422  
  chromosomes, immunofluorescence 5117  
  genetics  
    chromosomes 2983, 5117  
    DNA 7134  
    heterochromatin 8233  
    population genetics, polymorphism 9258  
  growth regulators, effects 3422  
  morphology, spermatozoa 58, 931

*Eyprepocnemis plorans* cont.  
  physiology, reproduction 8159  
  predators 275  
  Spain 2983

**Faba beans** (*Vicia faba*)

Acari  
  damage 11704  
  varietal reactions 11704

*Acyrtosiphon pisum* 1475, 2900, 4467, 6412, 7554, 11770

Aphididae 6411, 8624  
  Europe 10769  
  Germany 7736

*Aphis craccivora*, Bihar 7727

*Aphis fabae* 1477, 5460, 7735, 11771  
  Belgium 7734  
  Germany 1476  
  resistance 9663  
  UK 4474  
  varietal reactions 1476

*Aphis fabae* group, France 1512

arthropod pests, control, chemical control 2400

*Bemisia tabaci* 9664

*Brevipalpus phoenicis*, resistance 4391

*Bruchus rufimanus*  
  damage 1772  
  Morocco 3498

*Callosobruchus chinensis*, resistance 6899

*Choristoneura rosaceana* 6008

commodities, *Acanthoscelides obtectus* 12066

extracts  
  effects  
    *Aphis fabae* 6410  
    *Bruchus pisorum* 4466

fields  
  Carabidae, Alberta 8375  
  predatory arthropods, Germany 7736  
  predatory insects, Belgium 7734

habitats  
  Carabidae, Alberta 1214  
  predatory insects, Bihar 7727  
  intercropping, strawberries, effects, *Frankliniella occidentalis* 6664

*Liriomyza huidobrensis*, Argentina 9754

odours, effects, *Aphis fabae* 7735

pest control, Poland 1552

pesticides, detection 9396

pests. 874  
  Yunnan 589

*Sitona lineatus*  
  Poland 3490  
  UK 4473

*Spodoptera littoralis* 2194

*Systema argentinensis*, Argentina 182

*Thrips nigropilosus* 529

*Trialeurodes vaporariorum* 8261

Turkey 1470

**Fabaceae**  
  *Acronicta rumicis*, Jiangsu 7635  
  Agromyzidae, Nigeria 8687  
  Aphrophoridae 4022  
  Bruchidae, Hungary 8968  
  *Cameraria*, India 1824  
  *Colias* 3030  
  *Empoasca fabae*, USA 6026  
  extracts, effects, *Spodoptera litura* 5581  
  insecticidal properties 5581  
  *Taeniothrips inconsequens* 1150

**Fagaceae**  
  *Calliteara pudibunda*, Italy 9666  
  Kermesidae, Shandong 8069  
  Lepidoptera, Slovakia 11987

*Fagara ailanthoides*, extracts, effects, *Papilio* 10676

*Fagopyrum esculentum* (see Buckwheat)

**Fagus**  
  *Calliteara pudibunda*, Italy 9666  
  Hymenoptera, Austria 5028  
  Lepidoptera, Slovakia 3642  
  *Quadricalcarifera punctatella* 743, 7231  
    Honshu 5647  
  *Sibatanoiozephyrus* 5648  
  *Taleporia tubulosa*, Austria 5028  
  *Xyleborinus saxeseni*, UK 3103

**Fagus crenata**  
  forests, *Calosoma maximowiczii*, Japan 10944



**Fagus crenata** cont.

- Quadricalcarifera punctatella*
- Honshu 4700, 11989
- Japan 10944
- wood, Lucanidae 5632

**Fagus grandifolia**

- Cryptococcus fagisuga*, North America 2667

- Hypogastrura simsi*, Maryland 7910

**Fagus sylvatica**

- Anabolia nervosa* 734
- Coleoptera, Germany 1649
- Contarinia fagi* 5809
- Cryptococcus fagisuga*
- damage 1672
- Germany 1672
- insect pests
- damage 7908
- France 7908
- Phyllaphis fagi*
- Belgium 9973
- Germany 8876
- resistance 8876

**Faidherbia albida**

- insects
- pollination 6772
- Senegal 6772

**Falco naumanni**, pesticides, residues 3382**Falco peregrinus**, insecticides, residues 4311**Falco rusticolus candicans**, pesticides, residues 11649**Falco rusticolus islandus**, pesticides, residues 11649**Falco sparverius**, pesticides, residues 5332**Falkland Islands**, *Poa flabellata*, *Aridius* 9740**Fallopia convolvulus**, *Gastrophysa polygoni*, UK 10696**Fallow**

- Diplopoda, Czech Republic 7251
- Hymenoptera, Germany 11344
- predatory arthropods, Germany 1101

**Far East**, bananas, *Erionota thrax* 1563**Farm forestry**

- Australia, books 9041
- insect pests, Australia 9041

**Farming**, effects, predatory arthropods 536**Farming systems**

- effects, insects 1428
- UK 7645

**Faroe Islands**, Opiliones 1142**Fatty oil plants**, pest control, Uttar Pradesh 3572**Fauna**, insecticides, effects 2253**Faustinus apicalis**

- control, cultural control 5600
- insecticides, effects 3131
- tobacco, Colombia 5600

**Feeds**

- pesticides, residues 9617
- stores

**arthropod pests**

- ecology, population dynamics 9006

- Manitoba 9006

**Feijoa sellowiana** (see *Acca sellowiana*)**Feltia subterranea**

- biology, behaviour 4630
- control, chemical control 7675
- groundnuts 4630
- maize, Venezuela 7675

**Feltiella**

- ecology, population dynamics 2576, 5541
- grapes, habitats 5541
- pesticides, effects 2576
- prey

- Tetranychus* 2576

- Tetranychus kanzawai* 5541

- taxonomy 11087

- watermelons, fields, Honshu 2576

**Feltiella acarisuga**, taxonomy 11087**Feltiella acarivora**, taxonomy 11087**Feltiella curtistylus**, taxonomy 11087**Feltiella insularis**, taxonomy 11087**Feltiella occidentalis**, taxonomy 11087**Feltiella pini**, taxonomy 11087**Fenamiphos**

- analysis 5112
- toxicity, *Metarhizium anisopliae* 2307

**Fenazaquin**

- pesticidal properties 5280

**Fenazaquin** cont.

- structure 5280
- usage 1314

**Fenbutatin oxide****control**

- Brevipalpus*, mandarins 2578
- Calepitrimerus vitis*, grapes 7837
- Phyllocoptruta oleivora*, oranges 4589
- effects, *Typhlodromus pyri* 7837
- fungicides, interactions 4589
- mixtures, toxicity, *Tetranychus urticae* 7534
- residues, soil 10645
- resistance, *Panonychus citri* 10875
- toxicity, *Tetranychus urticae* 7534

**Fenitrothion**

- analysis 5112
- chemistry 4244

**control**

- Acrididae 6358
- Amrasca biguttula biguttula*, okras 5514
- Chilo tumidicostalis*, sugarcane 11952
- Cydia molesta*, pome fruits 7809
- Cylas formicarius*, sweet potatoes 4483
- Dysmicoccus brevipes*, pineapples 4597

- insect pests, apples 5519

- Lepidoptera, forests 3625

- Lipaphis erysimi*, radishes 5485

- Maconellicoccus hirsutus*, *Morus* 2567

- Metacalfa pruinosa*, fruits 11854

- Mimastra cyanura* 7175

- Monochamus alternatus* 2381

- Mythimna separata*, wheat 5408

- Pentatomidae, rice 1460

- Phthorimaea operculella*, potatoes 3503, 3510

- Pieris brassicae*, cabbages 8726

- Ptilineurus marmoratus*, *Boehmeria* 718

- Sitophilus oryzae*, wheat, commodities 3705

- Thrips tabaci*, onions 7765

**degradation**

- apples 6644

- estuaries 4345

- forest soils, bacteria 2381

- determination 1313

**effects**

- Dugesia tigrina* 4286

- earthworms 6377

- phytoplankton 7584

- formulations 11854

- water hardness, effects 3324

- hydrolysis 6299

- mercury 4339

- interactions, cyclodextrins 4239

- metabolism, rats 7582

**nontarget effects**

- Amphibia 10615

- Araneae 6169

- arthropods 3625

- birds 4292, 6358

- bogs 7615

- phytoplankton 10614

- Phytoseiidae 5519

- tomatoes 3525

- photolysis 7520

- poisoning, *Apis mellifera* 5315

**residues**

- air 8578

- determination 8578

- analysis 4796

- analytical methods 8345

- atmosphere 10660

- buckwheat, commodities 844

- commodities 10577

- crops 2323

- determination 845

- environment 2359, 5685

- foods 2360

- lawns and turf 10635

- Lentinula edodes* 12051

- maize, commodities 4796

- man 465

- Pinopsida 8345

- rice, commodities 845

- rivers 6379

**Fenitrothion** cont.**residues** cont.

- soil 495, 8345

**resistance**

- Aphididae 7543
- Aphis gossypii* 10552
- Hypothenemus hampei* 397, 5293
- Kampimodromus aberrans* 8775
- Sogatella furcifera* 4437
- Tribolium castaneum* 432

**toxicity**

- Anastrepha fraterculus* 8457
- Apidae 9600
- aquatic organisms 4321
- Beauveria bassiana* 5247
- carp 8527
- Crustacea 9626
- fishes 5326
- Heteroptera 8492
- Maladera matrida* 8511
- Penaeus japonicus* 9625-9626
- Rana temporaria* 7562
- stored products pests 833

**Fennel** (see *Foeniculum vulgare*)**Fenobucarb****control**

- Bemisia tabaci*, tomatoes 8738
- Mythimna separata*
- rice 2467
- wheat 538

**mixtures**

- control, *Bemisia tabaci*, tomatoes 8738

- toxicity, *Tetranychus urticae* 6342

**residues**

- air 10636
- aquatic environment 5362
- rivers 6379

**resistance**

- Nephotettix cincticeps* 437, 7539
- Nilaparvata lugens* 4436
- Sogatella furcifera* 4437

**Fenoxycarb****control**

- Aphis gossypii*, cotton 9959
- Cacopsylla pyri* 8765

**insect pests**

- apples 2554
- tree fruits 1391

- Lobesia botrana*, grapes 2570, 9870

- Monomorium pharaonis* 288

- Phyllocnistis citrella*, *Citrus* 11897

- Plutella xylostella*, cabbages 10801

- Quadrastipidius perniciosus*, ornamental woody plants 12030

- Sitophilus zeamais*, wheat, commodities 6901

- Solenopsis invicta* 3180, 6153

- stored products pests 8016

**effects**

- Bombyx mori* 9610

- Cacopsylla pyri* 4564

- Choristoneura fumiferana* 8599

- Coccinellidae 444

- Paratrechina fulva* 10559

- Schistocerca gregaria* 7621

- Spodoptera littoralis* 7624

- nontarget effects, *Apis mellifera* 2300

**toxicity**

- beneficial insects 11607
- Cydia pomonella* 6329
- ornamental woody plants 12030
- Spodoptera exigua* 2276
- Stethorus punctum* 10581

**Fenpropathrin****control**

- Acanthophilus helianthi*, safflower 11926

- Aceria jasmini*, *Jasminum auriculatum* 1736

- Alcidodes sauteri*, *Zanthoxylum* 3655

- Antigastra catalaunalis*, sesame 11942

- Bemisia tabaci*, tomatoes 8742

- Dysmicoccus brevipes*, pineapples 4597

**insect pests**

- cotton 1631
- cowpeas 9771
- pigeon peas 8697

- Lipaphis erysimi*, sarson 1502



Fenpropathrin cont.

control cont.  
    *Panonychus citri*, *Ziziphus mauritiana* 7859  
    *Spodoptera littoralis*, lucerne 5458  
effects  
    *Bemisia tabaci* 7528  
    beneficial organisms 2335  
    *Chrysoperla carnea* 456  
    *Neoseiulus fallacis* 3344  
    predatory insects 9771  
    rabbits 11643  
formulations, analytical methods 10333  
mixtures, control, *Spodoptera exigua*, sugarbeet 8819  
resistance  
    Aphididae 7552  
    *Bemisia tabaci* 3335  
toxicity, *Chrysoperla carnea* 10593  
**Fenpropimorph**, nontarget effects, insect pests, wheat 2324  
**Fenpyroximate**  
activity 11567  
chemistry 11567  
control  
    Acari, apples 11856  
    *Aculus schlechtendali* 2225  
degradation, light 10516  
nontarget effects, *Amblyseius andersoni* 11856  
toxicity  
    Tetranychidae 9563  
    *Tetranychus urticae* 6342, 9597  
usage 1314  
**Fenson**, residues, leafy vegetables 3513  
**Fensulfothion**, nontarget effects, tomatoes 3525  
**Fenthion**  
control  
    *Bactrocera oleae*, olives 8808, 11930  
    *Ceratitis capitata* 10878  
    *Cornitermes cumulans*, pastures 4457  
    *Cylas formicarius*, sweet potatoes 4483  
    *Deudorix isocrates*, mandarins 7843  
    Hemiptera, okras 5516  
    Lepidoptera, sapodillas 5563  
degradation, water 9602  
effects  
    man, cell lines 9594  
    *Oligota fageli* 5523  
    *Paratyia compressa* 475  
    rats 3350  
    tomatoes 9619, 9812-9813  
hydrolysis, mercury 4339  
nontarget effects  
    aquatic invertebrates 8573  
    tomatoes 3525  
residues  
    assessment 475  
    crops, commodities 2322  
    olive oil 7567, 8808  
    olives 5578, 11930  
    commodities 12078  
    rivers 6379  
resistance, *Lissorhoptrus oryzophilus* 6340  
toxicity  
    *Anastrepha fraterculus* 8457  
    Crustacea 6373  
    *Cylas formicarius* 11601  
    *Frankliniella occidentalis* 11581  
    Heteroptera 8492  
    *Steinernema carpocapsae* 7583  
    stored products pests 833  
**Fenusia dohrnii**  
    Ainus  
        Italy 8886  
        resistance 8886  
**Fenusia pusilla**  
    *Betula papyrifera*, New York 3954  
    distribution, China 8078  
    predators 3954  
**Fenusini**  
    China 8078  
    taxonomy 8078  
**Fenvalerate**  
control  
    *Amrasca biguttula*, aubergines 7795  
    *Anthonomus eugenii*, *Capsicum annuum* 3527

Fenvalerate cont.

control cont.  
    *Antigastra catalaunalis*, sesame 7874, 11942  
    Aphididae, cereals 1423  
    *Aproaerema modicella*, groundnuts 3585, 8811  
    *Cylas formicarius*, sweet potatoes 5481  
    *Diaphorina citri*, oranges 8783  
    *Helicoverpa armigera*  
        chickpeas 5465  
        pigeon peas 7743  
insect pests  
    cabbages 3515  
    cotton 7896  
    *Dactylis glomerata* 6527  
    pigeon peas 8697  
    soyabeans 3494  
    *Keiferia lycopersicella*, tomatoes 2531  
Lepidoptera  
    cotton 1634, 8836  
    sapodillas 5563  
    *Leucinodes orbonalis*, aubergines 10827  
Lipaphis erysimi  
    Indian mustard 5497, 5698  
    sarsion 1502  
    toria 9796  
Mythimna separata  
    rice 2467  
    wheat 538  
Phlyctinus callosus, apples 11852  
Phthorimaea operculella, potatoes 3503  
Pieris brassicae, cauliflowers 618  
Sitobion avenae, cereals 7642  
Spodoptera exigua, maize 5414  
Spodoptera frugiperda, maize 549  
Spodoptera littoralis, lucerne 5458  
Tetranychus, cotton 4653  
Thrips tabaci, onions 7765  
determination 7572  
effects  
    aquatic organisms 2302  
    *Caliothrips indicus* 11941  
    *Chrysoperla carnea* 456  
    Coleoptera 10038  
    cotton 3617  
    Linyphiidae 7571  
    mycorrhizas 5355  
    *Oziotelphusa senex* 11616  
    *Periophthalmus dipus* 10582  
    *Pterostichus cupreus* 4293  
    rats 464, 3366  
    soil, microorganisms 9633  
    *Tetrahymena thermophila* 6367  
extraction, water 502  
formulations, analytical methods 10333  
mixtures  
    control, *Spodoptera exigua*, maize 5414  
    effects, cotton 8839  
    resistance, *Myzus persicae* 11575  
nontarget effects  
    Araneae 1423  
    predatory insects 1633, 5414  
    soil arthropods 3369  
penetration, clothing 4232  
residues  
    analysis 4796  
    barley straw 3369  
    cauliflowers 618  
    commodities 7572  
    cotton 9953  
    determination 4806  
    foods, analytical methods 10331  
    invertebrates 6369  
    leafy vegetables 3513  
    maize, commodities 4796  
    okras 5512  
    synthesis 4236  
    water, analysis 3154  
resistance  
    Aphididae 7552, 8498  
    *Aphis gossypii* 10552, 10914  
    *Apis* 7585  
    *Diglyphus begini* 9576  
    *Frankliniella occidentalis* 9585  
    *Ganaspidium utilis* 9612

Fenvalerate cont.

resistance cont.  
    *Helicoverpa armigera* 412, 1327, 4245, 5601, 5609, 6455, 10546, 10557  
    *Heliothis virescens* 4264, 4979  
Lepidoptera 6339  
    *Neoseiulus longispinosus* 449  
    *Plutella xylostella* 447, 8504, 10558  
    *Scirtothrips dorsalis* 7550  
    *Spodoptera exigua* 4260, 11582  
    *Trialeurodes vaporariorum* 11829  
retention, apples 2553  
synergists 10546, 11575  
    effects, *Helicoverpa armigera* 8501  
toxicity  
    *Aphis gossypii* 6625  
    *Apis mellifera* 3361  
    *Cheilomenes sexmaculata* 11611  
    Crustacea 6373  
    *Cylas formicarius* 11601  
    *Epilachna vigintioctopunctata* 7793, 10015  
    Eulophidae 7577  
    *Eutectona machaeralis* 1335  
    *Helicoverpa punctigera* 2274  
    insect pests 6548  
    insects 439  
    Noctuidae 8684  
    *Photobacterium phosphoreum* 10616  
    *Plutella xylostella* 11577  
    *Rhagoletis pomonella* 9569  
    *Rhyzopertha dominica* 10037  
    sorghum 2437  
    *Spodoptera litura* 9908  
    with sesame oil, control, Lepidoptera, cotton 8836  
**Fergusonina**  
control 2658  
    *Eucalyptus deglupta*  
        damage 2658  
        Philippines 2658  
**Fergusonina tillyardi**  
control 2658  
    *Eucalyptus deglupta*  
        damage 2658  
        Philippines 2658  
**Fermentation**, control, stored products pests, Pinopsida, bark 10052  
**Ferns**, Geometridae 10119  
**Ferrisia virgata**  
    *Bromelia hemisphaerica*, Mexico 811  
    forest trees, Nigeria 8848  
**Fertilizers**  
effects  
    *Bemisia tabaci* 10004  
    *Chromatomyia horticola* 11924  
    insect pests 10695  
    Isoptera 5471  
    *Orseolia oryzae* 3465  
    *Ostrinia furnacalis* 552  
    predatory arthropods 4468  
    predatory mites 10850  
    wheat, insect pests 1425  
toxicity, *Tetranychus* 2392  
**Festuca arundinacea**  
    *Dolerus nitens*, Virginia 8175  
insect pests 10747  
    damage 6515  
    New Zealand 6515  
    *Listronotus bonariensis*  
        damage 6508  
        New Zealand 6508  
    *Popillia japonica* 7452  
    *Spodoptera frugiperda* 5455  
**Festuca myuros**, *Poanes melane* 5402  
**Festuca nigrescens**, *Popillia japonica* 7452  
**Festuca ovina**, *Oscinella hortensis*, Denmark 5452  
**Festuca pratensis**  
    Phyllobius  
        damage 11760  
        Sweden 11760  
**Festuca rubra**  
habitats  
    Carabidae, Alberta 1214  
    predatory arthropods, UK 9380  
    *Oscinella hortensis*, Denmark 5452  
    *Poanes melane* 5402  
    *Spodoptera frugiperda* 5455  
**Fibre plants**, insect pests, reports 2793



**Fibres**, insecticides, residues, removal 12079  
*Ficedula hypoleuca*, Formicidae, interactions 2088

*Ficotarsonemus*, taxonomy, new genus 5544

*Ficotarsonemus portabilis*

*Ficus*, Taiwan 5544

taxonomy, new species 5544

*Ficotarsonemus wongi*

*Ficus*, Taiwan 5544

taxonomy, new species 5544

**Ficus**

Agaonidae

Africa 8080

pollination 8080

*Blastophaga*

Asia 10103

pollination 10103

*Ceratopus*, America 9117

Chalcidoidea, South Africa 1967

*Ficotarsonemus*, Taiwan 5544

*Gigantothrips himalayanus*, Uttar Pradesh 1814

*Gonocephalum ficifolium*, Honshu 12032

*Kerria yunnanensis*, Yunnan 1236

*Kradibia*

Australasia 10102

pollution 10102

**Ficus beddomei**

*Platyscapa beddomei*

Kerala 9097

pollination 9097

**Ficus benghalensis**

*Azaleothrips bhattii*, Uttar Pradesh 1814

*Trioza yelagiriensis*, Tamil Nadu 10094

**Ficus benjamina**

*Kerria mengdingensis*, Yunnan 22

*Macrohomotoma*, Philippines 7000

*Metatachardia sinensis*, Yunnan 22

**Ficus burtt-davyi**

*Elisabethiella baijnathi*

pollination 6672-6673

South Africa 6672-6673

**Ficus carica** (see Figs)

**Ficus chrysolepis**

Agaonidae

Philippines 671

pollination 671

**Ficus fistulosa**

Agaonidae

Indonesia 5700

pollination 5700

**Ficus fulva**

Agaonidae

Indonesia 5700

pollination 5700

**Ficus hispida**

Agaonidae

Indonesia 5700

pollination 5700

*Ceratosolen solmsi*

Kerala 10364

pollination 10364

**Ficus lacor**, *Kerria mengdingensis*, Yunnan 22

**Ficus microcarpa**, *Micranisa yashiroi*, Sao Paulo 6694

**Ficus pumila**, *Blastophaga pumilae*, Ryukyu Archipelago 4606

**Ficus racemosa**, *Aleuroclava*, Tamil Nadu 21

**Ficus religiosa**, *Elasmolomus sordidus* 8615

**Ficus septica**

Agaonidae

Indonesia 5700

pollination 5700

**Ficus sycomorus**, *Ceratosolen galili*, South-ern Africa 672

**Ficus talboti**

*Waterstoniella keralensis*

Kerala 9097

pollination 9097

**Fidicina mannifera**

biology, behaviour 8268

Panama 8268

songs 8268

**Fidicina pronoce**

biology, behaviour 8268

Panama 8268

songs 8268

**Field beans** (see Faba beans)

**Field crops**

Coleoptera, UK 7566

habitats

Aphelinidae, Cape Verde 6659

predators, Italy 5174

insect pests, plant oils, toxicity 12045

pest control, Netherlands 1283

pests

books 8043

yield losses 8043

**Fields**

arthropods, Slovakia 4021

Cryptostigmata, UK 3069

Diplopoda, Czech Republic 7251

Elateridae, UK 3309

habitats

beneficial arthropods

Mississippi 5167

North America 5154

beneficial insects

Germany 9383

Maharashtra 5153

Montana 3228

*Camponotus compressus*, Rajasthan 11465

Chrysopidae, Hungary 9443

Diptera, Italy 9665

natural enemies, Korea Republic 7355

parasitoids, Quebec 4110

predators, Delaware 3049

*Torymus*, Japan 7045

Hymenoptera, Germany 11344

**Fig wasps** (see also Agaonidae)

**Figs** (*Ficus carica*)

*Apomyelois ceratoniae*, Iran 3549

*Blastophaga psenes*, pollination 6698

*Ceratitidis capitata*, Greece 977, 4386

*Ceroplastes rusci*, Iran 3548

Hymenoptera

Panama 4581

pollination 4581

orchards

Carabidae, Honshu 5545

*Tetrastichus*, Iran 3548

*Psacotheta hilaris*, Japan 10870

*Rhyncaphytopus ficifoliae*, Chile 9358

**Fiji**

*Adoretus versutus* 1264

cocoa, *Adoretus versutus*, pathogens 7884

*Elephantopus mollis*, *Tetreauresta obscuriventris* 11011

Hymenoptera

**Filitox** (see Methamidophos)

**Finger millet** (see *Eleusine coracana*)

**Finland**

apples, *Euseius finlandicus* 5518

barley

fields, Carabidae 3203, 11562

*Rhopalosiphum padi* 3203

*Betula*

*Eriocrania* 4693

predators 8868

insect pests 6750

*Betula alba*

*Eriocrania* 8867

*Eriocrania haworthi* 8867

*Betula pubescens*

*Dineura virididorsata* 1658

*Epirrita autumnata* 11984

cereals, fields, Carabidae 7644

conifers, Aphididae 5664

*Diprion pini* 10188

Diptera 10298

*Drosophila* 7192

*Drosophila repleta* 8300

forest trees

Aphididae 5665

insect pests 721

Lepidoptera 2657

forests, habitats, beneficial insects 5626

*Formica sanguinea* 3185

Lycosidae 10368

*Melitaea cinxia* 4027

Myrmica 8188

Opiliones 1142

orchards, Phytoseiidae 652

*Picea abies*, insecticide residues 10969

*Pinus* 6785

*Pinus sylvestris*

Diprionidae 2698

*Pissodes piniphilus* 8910-8911

**Finland cont.**

*Pinus sylvestris* cont.

*Schizolachnus pineti* 7937

*Tomicus piniperda* 764

*Ribes alpinum*, *Cecidophypsis alpinum* 5534

*Salix pentandra*, *Euura amerinae* 2668

soil arthropods 3369

strawberries, arthropod pests 7834

turnip rape, Coleoptera 3578

wheat, fields, predatory arthropods 10693

**Fipronil**

control, *Leptinotarsa decemlineata*, pota- toes 4496

toxicity, *Plutella xylostella* 11577

usage 1314

**Fire**

effects

*Antistropheus piliphi* 7718

arthropods 1670

soil fauna 3072

**Fires**, effects, Coleoptera 11978

**Firs** (see *Abies*)

**Fish**, insecticides, residues 4789

**Fish livers**, pesticides, residues 5343

**Fish meal**, attractants, insect pests 11553

**Fish oils**, organochlorine compounds, deter- mination 2383

**Fisheries**, pesticides, residues 11609

**Fishes**

acaricides, effects 5308

commodities, insect pests 8993

control, *Pomacea canaliculata*, rice 12090

growth regulators, effects 5310

insecticides

effects 90, 452, 2253, 2278, 2282-

2285, 2296, 2333, 3342, 4302,

5313, 6361, 8519, 8547, 8554,

8557, 8559, 9459, 9603, 10582,

11615, 11620-11621, 11625

metabolism 7558

residues 457, 461, 471, 1350, 1366,

1370, 2347-2348, 2359, 6368,

7579, 7586, 7616, 8530, 8551,

8597, 11637, 11668

analysis 3343

determination 4072

residues 2334

toxicity 1340, 2286, 2341, 3376,

4303, 8520, 8525, 8527-8528,

10607, 11638, 11651

neurotropic drugs, uptake 2303

organochlorine compounds

effects, models 3353

residues 4307, 9611, 10610

pesticides

effects 264, 1352, 1378, 3356, 5331,

7560

residues 2344, 3355, 3360, 3393,

5329, 5343-5344, 5352, 6363,

8574, 9630, 10568, 11609

toxicity 4314, 5326, 7596

**Flamprop**, effects, *Spodoptera littoralis* 2259

**Flatidae**

Oriental Region 49

taxonomy 4845

new taxa 49

**Flavonoids**, effects, *Trichoplusia ni* 6530

**Flax** (*Linum usitatissimum*)

insect pests, control, chemical control 6420

*Macrosiphum euphorbiae*

economic thresholds 9965

Manitoba 9965

**Flea beetles** (see Chrysomelidae)

**Flautiaxia**, taxonomy 6949

**Flautiaxia armata**, forest trees, China 6949

**Flautiaxia chinensis**

*Morus*, China 6949

taxonomy 6949

**Flautiaxia yuae**

*Lespedeza bicolor*, Hebei 6949

taxonomy, new species 6949

**Flexamia**

ecology 6518



**Florida**, biological control, books 6924  
**Flour mills**

*Pyemotes ventricosus*, Italy 6879  
stored products pests, Italy 6878

**Flours**

control, *Varroa jacobsoni* 2117  
*Ephesia kuehniella* 2771, 11046  
insect pests, Belgium 10035  
storage mites, Italy 6879  
stored products pests 6880  
*Tribolium castaneum* 9016

**Fluazifop**, effects, *Spodoptera littoralis* 2259  
**Fluazuron**, legislation, nomenclature 428

**Flucycloxuron**

resistance, *Panonychus ulmi* 4562  
toxicity  
*Cydia pomonella* 6329  
*Tenebrio molitor* 2281

**Flucythrinate**

control, *Lipaphis erysimi*, sarson 1502  
residues, foods, analytical methods 10331  
toxicity, *Apis mellifera* 3361

**Flufenoxuron**

control  
*Helicoverpa armigera*, chickpeas 5465  
insect pests, cowpeas 9771  
*Lobesia botrana*, grapes 9870  
*Panonychus ulmi*, apples 4548  
*Thrips palmi*, *Phaseolus vulgaris* 5462

effects

*Coccinellidae* 444  
*Neoseiulus fallacis* 3344  
*Noctuidae* 6395  
parasitoids 7623  
predatory insects 9771  
*Trichogramma pretiosum* 7570  
mixtures, control, insect pests, cowpeas 9771

resistance, *Plutella xylostella* 6336  
toxicity

*Ceraeochrysa cubana* 4324  
Coleoptera 1332  
*Cydia pomonella* 6329  
*Frankliniella occidentalis* 11581  
*Plutella xylostella* 10669

**Fluoride**, effects, Carabidae 11562

**Fluoroacetates**, pheromones, *Noctuidae* 7634

**Flusilazol**, mixtures, nontarget effects, Coleoptera 10702

**Fluvalinate**

control  
*Antigastra catalaunalis*, sesame 11942  
*Aphididae*, vegetables 6604  
insect pests, avocados 11038  
*Lipaphis erysimi*, sarson 1502  
*Varroa jacobsoni* 7353  
*Apis mellifera* 11448  
effects, *Stethopachys formosa* 12039  
nontarget effects, chrysanthemums 10992  
residues  
determination 10605  
foods, analytical methods 10331  
honey 9601, 10605  
man 1351  
vegetables 8616  
resistance  
*Frankliniella occidentalis* 6275  
*Neoseiulus longispinosus* 449  
*Varroa jacobsoni* 2108, 8509

toxicity  
*Apis mellifera* 11619  
*Spodoptera litura* 9908  
*Tetranychus urticae* 436

**Fluvastatin**, effects, *Locusta migratoria migratorioides* 4267

**Fodder crops**, pest control, reports 860

**Fodder plants**

commodities, arthropod pests 12082  
insect pests 863

**Foeniculum**

Lepidoptera, Russia 6821  
*Papilio zelicaon*, USA 11316

**Foeniculum vulgare**

*Aphididae*, Israel 5398  
pest control 3678

**Fog**, pesticides, residues 10664

**Foliage plants**, insecticides, phytotoxicity 4277

**Folpet**, effects, *Empoasca vitis* 11885

**Folsomia candida**

insecticides, effects 10629, 11646  
predators 1103  
prey, *Acanthognathus rudis* 6055

**Folsomia fimetaria**

biology, behaviour 3351  
insecticides, effects 3351, 10629

**Folsomia octoculata**, forests, Honshu 9989

**Fonofos**

control  
insect pests, sweet potatoes 5482  
Scarabaeidae, strawberries 9858  
effects  
herbicide resistance 9714  
soil flora 10598  
interactions, herbicides 2316

**Food contamination**, pesticides, reviews 2361

**Food plants**

Aphididae, interactions, natural enemies 8365  
Heteroptera, Canary Islands 5390  
*Listronotus setosipennis* 3288  
*Panonychus ulmi*, Italy 11444

**Food safety**, integrated pest management, USA 10478

**Foods**

genetic engineering, safety 2775  
insecticides  
residues 2321, 2360, 2823, 5755, 10330, 10631  
determination 3148  
*Liposcelis bostrychophilus*, UK 8020  
pesticides  
legislation 7601  
residues 1338, 5335, 5733, 6904, 9618, 10064, 11630

**Foray 48B** (see *Bacillus thuringiensis* subsp. *kurstaki*)

**Forbs**

herbivores  
damage 5451  
UK 5451

**Force** (see Tefluthrin)

**Forcipatorina**, morphology 4880

**Forda**, pathogens 6228

**Forda formicaria**

*Pistacia palaestina*  
galls 5568  
Israel 5568

**Forda riccobonii**

ecology, interspecific competition 8893  
*Pistacia atlantica*  
galls 8893  
Israel 8893

**Forecasting**

*Aphis fabae*, faba beans, expert systems 4474  
arthropod pests, *Ziziphus sativa* 10887  
*Atrijuglans heterohei* 8465  
*Chilo auricilius*, field crops 2471  
*Chrysomphalus aonidum*, oranges 3557  
*Chrysoteuchia topiaria*, *Vaccinium* 3544  
*Cnaphalocrocis medinalis* 7508  
*Contarinia sorghicola*, sorghum 4433  
*Cydia molesta* 6291  
*Cydia pomonella*, apples 4559  
*Ectropis obliqua*, tea 8823  
*Helicoverpa armigera* 11334  
*Hypera postica*, lucerne 8680  
insect pests  
cereals 6431  
rice 6491  
*Lymantria dispar*, forest trees 9970  
*Nilaparvata lugens*, rice 6482  
*Orseolia oryzae*, rice 7703  
*Panonychus ulmi*, apples 9840  
*Penthaleus major*, wheat 9681  
pest management 6108  
pests 11556  
*Phorodon humuli*, plums 6657  
*Phyllocnistis citrella*, oranges 3071  
*Polyphagotarsonemus latus* 8466  
Pyralidae, sugarcane 695  
*Sitobion avenae*, wheat 7655, 7667  
*Stephanitis pyrioides* 7505  
*Tetranychus viennensis* 9840  
*Tipula*, cereals 535

**Forest litter**

habitats, Carabidae, Alberta 5102  
soil arthropods, Russia 9456

**Forest nurseries**, insect pests, Portugal, books 9042

**Forest soils**

*Bacillus thuringiensis*, effects 1374  
bacteria, insecticides, degradation 2381

**Forest trees**

Acari  
galls 11347, 11979  
UK 11347, 11979  
arthropods  
ecology, habitats 3626  
Puerto Rico 3626  
*Caloptilia*, Europe 9102  
*Choristoneura fumiferana*, New Brunswick 7615  
Coleoptera  
Chile 5629  
Germany 11977  
*Formica exsectoides*, West Virginia 580  
habitats, *Allothrombium pulvinium*, Iran 9352  
*Incisitermes furvus*, Puerto Rico 3763  
insect pests 1647, 7899  
Argentina 2647  
books 6937  
British Columbia 6800  
California 2646  
Canada 2648, 8853  
control, biological control 531  
damage 1646, 10928, 12025  
ecology, population dynamics 8863  
Germany 5625  
India 9040, 10928  
natural enemies, India 5780  
New Zealand 1646  
Ontario 2651  
outbreaks 8863  
Poland 1644-1645  
Quebec 730  
Slovenia 8863  
Switzerland 2645  
Venezuela 8862  
Virginia 12025  
Zimbabwe 1785  
insects, interactions, reviews 5627  
integrated pest management 871  
British Columbia 720  
*Ips typographus*, Austria 10959  
Isoptera, damage 7368  
*Lambdina fiscellaria*, British Columbia 1890  
*Lanelater*, India 1640  
*Lymantria dispar*  
damage 1641, 11974  
Florida 404  
Germany 4679  
Michigan 6744  
outbreaks 11974  
Pennsylvania 11974  
USA 2652-2653, 9970  
*Macrotoma palmata*, Egypt 8617  
*Monolepta australis*, Northern Territory 2650  
*Nitidulidae*, Ohio 7903  
*Palloptera*, Norway 7289  
*Papilio canadensis*, USA 3634  
pest control  
Quebec, reports 5760  
West Africa 9032  
pests, South Africa 5621  
Scolytidae, New York 3658  
*Tydeus exiguelitteratus*, Sweden 8057  
wood, Coleoptera, Russia 10057

**Forests**  
Acari, Slovakia 3998  
Arctidae, Minas Gerais 8854  
arthropods  
New Caledonia 8895  
Slovakia 4021  
Spain 10940  
Uttar Pradesh 3625  
West Virginia 7594  
*Atta cephalotes* 3182  
*Atta sexdens*, Para 7904  
Cantharidae, Hungary 7803  
Carabidae  
America 5084  
Maryland 3080



**Forests cont.**

- Coleoptera, Florida 11978
  - Curculionidae, Slovakia 3076
  - Dendroctonus rufipennis*
    - Alaska 8897
    - damage 8897
  - Diplopoda, Czech Republic 7251
  - Diptera, Germany 541, 1083
  - Drosophila melanogaster*, Moldova 11276
  - Epirrita autumnata*, Estonia 9181
  - fauna, Poland 10249
  - Formica*, Slovenia 8851
  - Formicidae
    - Connecticut 4680
    - Costa Rica 3046, 8858
    - Espirito Santo 7902
    - French Guiana 8353
    - Para 4678
  - habitats
    - beneficial insects, Finland 5626
    - Formicidae, Cameroon 4682
    - Pseudacteon*, Costa Rica 3191
  - Heterocera, New South Wales 229
  - Hyllobius abietis*, Czech Republic 7905
  - India, books 9040
  - insects
    - controlled burning, effects 7912
    - Costa Rica 4677
    - ecology 888
    - herbicides, effects 10933
    - India, books 888
    - Kalimantan 728
    - Netherlands 2644
    - Scandinavia 5620
  - Isoptera
    - South America 7371
    - Uttar Pradesh 726
  - Laboulbeniales, Poland 10442
  - Lepidoptera, Honshu 9966
  - Leptogenys*, South Africa 5081
  - litter, insects, Panama 4676
  - Lymantria dispar*, USA 4210
  - Odontotermes brunneus*, Tamil Nadu 727
  - pesticides, usage, Oregon 9967-9968
  - pests, books 889
  - Polyrhachis laboriosa*, Cameroon 4681
  - Pterostichus*, Germany 6998
  - Rhopalocera, Colombia 7250
  - soil arthropods 9346
    - Korea Republic 7946
  - Solenopsis geminata*, Costa Rica 3191
  - Sphingidae, Costa Rica 11297
  - Termitidae, Congo 8856
- Forficula**
- biology, behaviour 1084
  - pathogens 2155
  - Shandong 2155
- Forficula auricularia**
- Acacia longifolia*
    - damage 2720
    - Italy 2720
  - biology 2720
    - behaviour 1999, 4565
    - reproduction 74
  - control
    - Cacopsylla pyri*, evaluation 4565
    - physical control 2720
  - morphology 1999
  - parasitoids 305, 314
  - pathogens 2720
  - peaches, France 12044
  - pears, orchards 4565
  - plant extracts, effects 12044
  - Populus*, forests, France 6760
  - prey
    - Chrysomela tremula* 6760
    - Eupoecilia ambiguella* 4577, 5540
    - insect pests 4565
  - vineyards
    - Germany 4577
    - habitats, Germany 5540
- Forficulidae**, morphology 5844
- Formaldehyde**
- control, *Beauveria bassiana* 3258
  - effects
    - Aphis spiraeicola* 7313
    - entomopathogens 9468
    - Spilarctia obliqua*, pathogens 9473
- Formetanate**
- residues, pears 6651

**Formetanate cont.**

- resistance, *Anaphes iole* 3222
- Formetanate hydrochloride**, control, *Thrips palmi*, vegetables 11775
- Formic acid**
- control
    - Tropilaelaps clareae*, *Apis mellifera* 10388
    - Varroa jacobsoni* 1287, 7367
- Formica**
- biology, behaviour 283-284, 1194, 3986
  - Chaitophorus*, interactions 3986
  - ecology, habitats 8851
  - forests, Slovenia 8851
  - Korea Republic 8087
  - Polyergus*, interactions 5127
  - Populus*, habitats 3986
  - prey, *Zeiraphera canadensis* 4739
  - taxonomy 8087
    - synonyms, *Iberoformica* 1817
    - USA 1194
- Formica aquilonia**
- birds, interactions 2088, 5152
  - ecology 2088
    - interspecific competition 5152
  - Picea abies*, habitats, Sweden 5152
  - prey, arthropods 5152
- Formica exsecta**, biology, behaviour 291
- Formica exsectoides**
- control, chemical control 580
  - food plants, West Virginia 580
  - prey, Tenthredinidae 4125
- Formica fusca**
- air pollution, effects 8868
  - Betula*, habitats, Finland 8868
  - biology, behaviour 291, 11330
  - prey, *Eriocrania* 8868
- Formica glacialis**
- Betula papyrifera*, habitats, New York 3954
  - biology, behaviour 3954
  - prey, Tenthredinidae 3954
- Formica japonica**
- Honshu 5790
  - Korea Republic 8087
  - Nipponatelurina kurosai*, interactions 5790
  - Polyergus samurai*, interactions 3192
  - taxonomy 8087
- Formica lasioides**
- ecology 6192
  - prey, *Orgyia vetusta* 6192
- Formica lemani**
- air pollution, effects 8868
  - Betula*, habitats, Finland 8868
  - prey, *Eriocrania* 8868
- Formica lugubris**
- biology, behaviour 286, 2097, 5142
  - Germany 286
  - Italy 2097
  - Korea Republic 8087
  - pheromones 973
  - Switzerland 973
  - taxonomy 8087
- Formica neogagates**
- ecology 1191
    - distribution 4680
  - forests, Connecticut 4680
  - New Mexico 1191
- Formica obscuripes**
- biology, behaviour 1194
  - USA 1194
- Formica podzolica**
- Alberta 6152, 10360
  - biology, sex ratio 6152
  - ecology 1191
    - intraspecific competition 10360
    - population structure 817
  - New Mexico 1191
  - pastures, Alberta 817
- Formica polyctena**
- biochemistry, venoms 8135
  - biology, behaviour 286, 5144-5145, 11415
- Formica rufa**
- genetics, hybridization 5146
  - interactions 5144-5145
- Formica sanguinea**, interactions 11414
- Germany 286
  - morphology, muscles 3794

**Formica polyctena cont.**

- physiology, excretory system 2931, 4087, 8146
  - Picea abies*, forests, Austria 10971
  - Poland 5144-5146, 11414-11415
  - prey, *Pristiphora abietina* 10971
- Formica pratensis**
- biology, behaviour 286, 2089, 6813
  - Germany 286
  - Pachyneuron muscarum*, interactions 6813
  - Psylla*, interactions 6813
- Formica rufa**
- air pollution, effects 8868
  - Betula*, habitats, Finland 8868
  - biology, behaviour 286, 291, 2097, 5144-5145, 11330
- Formica polyctena**
- genetics, hybridization 5146
  - interactions 5144-5145
  - Germany 286
  - Italy 2097
  - Poland 5144-5146, 11414
  - prey, *Eriocrania* 8868
- Formica sanguinea**
- biology, behaviour 291, 3185, 11330
  - Finland 3185
  - Formica polyctena*, interactions 11414
  - Poland 11414
- Formica schaufussi**, biology, behaviour 3948
- Formica selysi**
- biology, behaviour 3952, 5126
  - Manica rubida*, interactions 5126
  - physiology, secretions 5126
- Formica subsericea**
- ecology, distribution 4680
  - forests, Connecticut 4680
- Formica transkaucaasia**
- Korea Republic 8087
  - taxonomy 8087
- Formica truncicola**
- genetics, chromosomes 10212
  - Heilongjiang 10212
- Formica truncorum**
- biology
    - behaviour 286, 291, 1193
    - reproduction 1979
  - Germany 286
- Formica uralensis**, biology, behaviour 291
- Formicidae**
- Aphidius colemani*, interactions 7489
  - Aphis craccivora*, interactions 1490
  - Argentina 4023
  - attractants 1197, 1650
  - Australia 10246
  - biochemistry
    - chemical composition 4973
    - venoms 9175
  - biodiversity 10246
  - biology 5147, 9045
    - behaviour 1190, 3046, 3179, 4973, 5051, 5448, 8858, 9178, 11313
    - models 1106
    - dispersal 3928
  - birds, interactions 2088
  - books 9045
  - broadleaves, forests, Connecticut 4688
  - cabbages, fields, Philippines 5494
  - Cecropia tessmanii*, symbiosis 6770
  - cocoa
    - litter (plant), Sao Paulo 1624
    - plantations, Bahia 3085
  - coffee, plantations, Minas Gerais 701
  - cotton, fields, Kenya 1626
  - cultural methods, effects 3608
  - Cyrtilla racemiflora*, habitats, Puerto Rico 6767
  - Dalbulus quinquevittatus*, interactions 11761
  - distribution
    - Colombia 2092
    - Honshu 1197
    - Vietnam 5099
  - ecology 670, 740, 1196, 2088, 2093, 3046, 3608, 4023, 6150, 7902, 8353, 9105
  - arthropod communities 11403
  - chemical ecology 7152
  - colonization 9283
  - distribution 3085



Formicidae cont.

ecology cont.  
environmental factors 4676  
habitats 1126, 1624, 4682  
latitude 10272  
reviews 294  
spatial distribution 701  
species diversity 4678  
epiphytes, interactions 3690  
*Eucalyptus*, habitats, Northern Territory 740  
evolution 9105-9106  
fields, Kenya 6427  
Florida 6093  
forests  
Costa Rica 3046, 8858  
Espirito Santo 7902  
French Guiana 8353  
habitats, Cameroon 4682  
litter, Panama 4676  
Para 4678  
Scandinavia 5620  
fungi, interactions 10361-10362  
genetics, genetic variation 7118  
Germany 1650  
grasslands, Germany 1126  
habitats  
Ghana 11960  
Poland 536  
immobilization 1168  
insecticides, nontarget effects 5494  
interactions, Nemopteridae 11411  
*Lupinus arboreus*, habitats, California 4772  
Lycaenidae, interactions 8427  
*Macaranga*, interactions 814  
*Macaranga hosei*  
habitats, Malaysia 814  
Malaysia 814  
maize, fields, Virginia 3437  
*Melanaphis yasumatsui*, interactions 7998  
Membracidae, interactions 940  
mistletoes, Colombia 2087  
monitoring, traps 8858  
morphology 5147  
old fields, South Africa 7262  
Orchidaceae, interactions 2728  
*Phenacoccus manihoti*, interactions 6567  
pheromones 9178  
physiology  
excretory system 11196  
secretions 9178  
*Pinus rigida*, forests, New Jersey 9984  
plant extracts, repellents 3415  
plantations, Costa Rica 3608  
plants, interactions 294, 8353  
potatoes, commodities, India 5475  
prey  
*Anastrepha ludens* 8385  
*Attacus atlas* 4940  
*Drosophila tripunctata* 195  
*Helicoverpa armigera* 1626, 6427  
*Lymantria dispar* 4688  
*Nisaga simplex* 11745  
*Orygia vetusta* 4772  
*Phthorimaea operculella* 5475  
*Tenebrio molitor* 7373  
*Pseudococcus*, interactions 640  
rangelands, Wyoming 5448  
rearing techniques 11387  
rice, habitats, Orissa 11745  
sampling 289  
savannas, ecology 180  
Sceptobiini, interactions 50  
soil  
interactions 9415  
Western Australia 2093  
South America 1196  
Spain 6150  
sugarcane, plantations, Texas 693  
Taiwan 290  
taxonomy 1817, 5147, 5782  
books 5772  
tropical forests, Costa Rica 289  
UK 9283  
*Viola verecunda*, interactions 6155

Formothion

control  
*Bactrocera cucurbitae*, *Momordica charantia* 6620  
*Rhopalosiphum maidis*, maize 554

Formothion cont.

control cont.  
*Uroleucon carthami*, safflower 3580  
effects, wheat 8629  
Fowls  
insecticides  
effects 5306, 5338, 6351  
poisoning 2313  
pesticides, effects 9627  
*Fragaria* (see Strawberries)  
France  
Acrididae 11295  
*Agrotis ipsilon* 6084  
*Apis mellifera* 9430  
apples, *Panonychus ulmi* 4562  
beetroots, insect pests 1497  
Bibionidae 10309  
broadleaves, insect pests 7908  
cabbages  
fields, predatory insects 1505  
Thysanoptera 1505  
*Cacopsylla pyri* 4252  
*Camponotus vagus*, parasitoids 3206  
*Carabus* 5827  
cereals  
Aphididae 2405  
Homoptera 10699  
*Zabrus tenebrioides* 1416  
chestnuts  
*Curculio elephas* 1585  
*Cydia splendana* 8799  
*Chorthippus parallelus* 3908, 6012, 8257  
*Citrus clementina*, *Aphis* 4592  
*Coccinella septempunctata* 7359  
*Cochlicella acuta*, parasitoids 8403  
Collembola 8308  
*Diprion pini* 9268  
dogs, poisoning, *Thaumetopoea pityocampa* 2101  
*Drosophila melanogaster* 1002, 8200  
*Drosophila simulans* 1922  
*Echium plantagineum*, *Ceutorhynchus* 5714  
entomopathogens, conferences 10062  
fishes, insecticide residues 8574  
food plants  
*Aphis fabae* group 1512  
*Pachycerus cordiger* 2745  
*Rhopalosiphum padi* 7640  
grapes  
arthropod pests 1557  
*Lobesia botrana* 4575, 10866-10867  
*Scaphoideus titanus* 2573  
*Tetranychus mcdanieli* 1558  
greenhouse crops, Aleyrodidae 11447  
greenhouses  
arthropods 8378  
habitats, Miridae 11447  
Helicidae 353  
*Helix lucorum* 3248  
*Hippophae rhamnoides*, *Macropsis* 5793  
integrated control 1285  
kiwifruits, arthropod pests 1561  
*Lathyrus*, *Bruchus affinis* 8686  
leeks, *Acrolepiopsis assectella* 97  
*Liriomyza huidobrensis* 11557  
litter, Collembola 3083  
*Maculinea* 11345  
maize  
*Agriotes* 1415, 1442  
*Sesamia nonagrioides* 3977  
melons, *Aphis gossypii*, natural enemies 9821  
*Nezara viridula* 7059  
olives, *Euphyllura olivina* 6711  
*Onopordum illyricum*, *Larinus cynarae* 12053  
Orthoptera 10321  
*Orthosia* 9327  
*Panonychus ulmi* 7530  
*Parnassius mnemosyne* 6011  
peaches, *Forficula auricularia* 12044  
pears, *Cacopsylla pyri* 8765  
peas, *Sitona lineatus* 9758  
Phytoseiidae 1209  
*Picea abies*, *Dendroctonus micans* 1697, 8917  
*Pinus*  
*Hylobius abietis* 2704  
*Reticulitermes santonensis* 766

France cont.

*Pinus pinaster*  
*Dioryctria sylvestrella* 2699, 8904  
*Matsucoccus feytaudi* 5673, 7941  
*Thaumetopoea pityocampa* 7940  
*Pinus sylvestris*  
*Diprion pini* 8903  
*Hylobius abietis* 4734, 6780  
insect pests 7942  
Scolytidae 2695  
*Thaumetopoea pityocampa* 763  
*Pissodes piceae* 6024  
Poaceae, *Sitobion avenae* 7641  
*Podisma pedestris* 8267  
*Populus*, *Chrysomela tremula* 6760  
*Pseudotsuga menziesii*, *Hylobius abietis* 1704  
*Quercus ilex*  
forests, Diplopoda 10943  
*Psylliodes ruficolor* 742  
*Quercus robur*, Geometridae 2664  
rape, *Baris coerulea* 10896  
*Reticulitermes* 3178  
*Rhopalosiphum padi* 4032  
rivers, insecticide residues 8574  
*Rubus*, habitats, Carabidae 5703  
*Salicella fasciata* 353  
sorghum, *Schizaphis graminum*, parasitoids 563  
sugarbeet, Aphididae 2610  
sunflowers  
*Brachycaudus helichrysi* 6705  
insect pests 1595  
Syrphidae 6098  
tomatoes  
greenhouses, *Macrolophus caliginosus* 1518  
*Trialeurodes vaporariorum* 1518, 8378  
tree fruits, pest control 1529  
*Uropoda liffreana* 8071  
vegetables, insect pests 1274  
vineyards, *Typhlodromus pyri* 1558  
water, insecticide residues 5361  
wheat  
*Diuraphis noxia* 9676, 11717  
fields, beneficial insects 11717  
*Sitobion avenae* 7655  
wild plants, *Coleophora* 584  
*Frankliniella*  
monitoring, traps 9809  
tomatoes, North Carolina 9809  
*Frankliniella bispinosa*  
Citrus, Florida 259, 5554  
control, chemical control 11868  
*Impatiens walleriana*, damage 2716  
monitoring, traps 259  
strawberries, Florida 11868  
*Frankliniella cestrum*  
control, chemical control 9849  
grapes  
Chile 9867  
damage 9867  
nectarines  
Chile 9849  
damage 9849  
*Frankliniella dampfi* (see *F. schultzei*)  
*Frankliniella fusca*  
biology, overwintering 9279  
control, chemical control 8702  
cotton 8840  
cowpeas, Arkansas 8702  
food plants, North Carolina 9279  
groundnuts, resistance 1606  
plant pathogens, transmission 8741, 9279  
sampling 8741, 8840  
tomatoes, Florida 8741  
watermelons  
damage 10834  
Florida 10834  
*Frankliniella insidiosus*, greenhouse crops, Ontario 11541  
*Frankliniella insularis*  
Citrus, Florida 5554  
distribution, USA 5554  
*Frankliniella intonsa*  
grasslands, Poland 8672  
potatoes, Hokkaido 7754  
predators 7754  
*Frankliniella kellyae*  
Citrus, Florida 5554



**Frankliniella kelliae** *cont.*  
distribution, USA 5554

**Frankliniella occidentalis**  
*Alstroemeria*, Italy 3672  
apples, British Columbia 8759  
attractants 3305  
biological control agents, evaluation  
7380, 8452  
biology 1411, 6807, 11834  
dispersal 11891  
environmental factors 236  
life tables 5511, 7167  
overwintering 9279  
*Capsicum* 3528  
Italy 8745, 10831  
chrysanthemums, damage 6816  
*Citrus*, Florida 5554  
control 1411, 8450, 10049, 11705  
biological control 625, 1714, 6180,  
7486, 11541  
chemical control 1061, 8702, 11547  
cultural control 6664  
physical control 7781  
trapping 3528  
cowpeas, Arkansas 8702  
cucumbers 5511, 9825, 11834  
resistance 6617  
cut flowers 10049  
distribution, USA 5554  
ecology, population dynamics 12020  
food plants 6263, 6807  
North Carolina 9279  
fruit vegetables, UK 625  
fruits  
damage 10857  
Israel 10857  
*Gerbera jamesonii* 1714  
greenhouse crops 1061, 3305, 7781  
California 8450  
Czech Republic 1411  
Europe 7167  
Poland 1299  
South Africa 9538  
Honshu 11547  
horticultural crops, Italy 11705  
insecticides  
resistance 396, 441, 4977, 6275,  
6322, 9585, 11590  
toxicity 438, 11581  
Japan 11581  
mandarins  
damage 11891  
Honshu 11891  
Missouri 441  
monitoring, traps 1299, 3305, 8759,  
9538, 9809, 9825, 12020  
nectarines  
damage 6661  
Spain 6661  
ornamental plants  
Czech Republic 6807  
Missouri 396  
pathogens 4184, 8745, 10445  
pears  
damage 10854  
Israel 10854  
*Pelargonium* 7976  
*Phaseolus* 236  
pheromones 212  
physiology, secretions 212  
plant extracts, effects 8487  
plant pathogens, transmission 3579,  
3672, 5399, 6263, 7476, 7976,  
8741, 9279, 10831  
pot plants, Japan 12020  
predators 321, 5156, 6664, 8805  
sampling 8741  
strawberries, Spain 6664  
sunflowers, Israel 3579, 8805  
tomatoes  
Florida 8741  
North Carolina 9809  
USA 7167  
*Verticillium lecanii*, toxins, effects 1260

**Frankliniella schultzei**  
control, chemical control 1473, 8736  
plant pathogens, transmission 8736  
soybeans, Andhra Pradesh 1473  
tomatoes, Parana 8736

**Frankliniella tritici**  
monitoring, traps 9809

**Frankliniella tritici** *cont.*  
plant pathogens, transmission 8741  
*Rhododendron*, Georgia 1711  
sampling 8741  
tomatoes  
Florida 8741  
North Carolina 9809

**Fraxinus**  
habitats, *Diloponiss fuerschii*, Iran 674  
Hemiptera, Iran 674  
*Hypogastrura simsi*, Maryland 7910  
*Thrips fallaciosus* 919  
*Thrips stannardi* 919

**Fraxinus excelsior**  
*Eriophyes fraxinivorus*  
galls 3635  
Irish Republic 3635  
*Hylobius abietis* 5623  
Lepidoptera, Finland 2657  
*Prays fraxinella*  
damage 2670  
UK 2670, 9975  
*Stereonychus fraxini* 4706

**Fraxinus velutina**, *Siphoninus phillyreae*,  
California 11996

**Frazer fir** (see *Abies fraseri*)

**Free living nematodes**, predators 1968

**French beans** (see *Phaseolus vulgaris*)

**French Guiana**  
*Bactrocera carambolae* 9897  
*Dicorynia guianensis*, insect pests 6771  
forests, Formica 8353  
*Spodoptera* 9068  
*Spodoptera frugiperda*, pathogens 2188  
tropical forests, *Anelosimus eximius* 5151

**French West Indies**, *Nezara viridula* 7059

**Friesia**  
biology, feeding 3759  
detritus, Mexico 3759  
taxonomy 3759

**Frogs**, toxins, insecticidal properties 8472

**Frontalin**  
attractants  
*Dendroctonus pseudotsugae* 9540  
*Thanasimus undatulus* 9540  
mixtures, attractants, *Dendroctonus*  
*brevicomis* 7936

**Fructose**, mixtures, effects, *Choristoneura*  
*occidentalis* 4746

**Fruit**, pesticides, residues 468

**Fruit crops**  
insect pests, control, cultural control,  
reviews 9532  
pest control 2545

**Fruit trees**, Lepidoptera, Jiangsu 10839

**Fruit vegetables**  
arthropod pests, Austria 10465  
*Bactrocera*, China 6598

**Fruits**  
*Anastrepha suspensa*, USA 1778  
*Anomala*, Hungary 4546  
arthropod pests 9403  
control, integrated control 6631  
Italy 6631  
*Bactrocera*, China 6598  
*Bactrocera dorsalis* 9350  
*Ceratitis capitata* 10873  
*Cicadella viridis*, Shanxi 11840  
commodities  
insecticides, residues 2322, 4805  
pest control 2778  
fumigants, residues, determination 9398  
habitats, *Stethorus punctillum*, Italy  
11444  
insect pests, monitoring, traps 1294  
insecticides  
residues 642  
analysis 10331  
integrated pest management  
Czech Republic 6630  
Europe 1532  
Italy 641  
Poland 2548  
*Macrotoma palmata*, Egypt 8617  
*Panonychus ulmi*, Italy 11444  
pest control  
Germany 3317  
New Zealand 7807  
West Africa 9032  
pesticides, residues 2325, 9394  
pests 11063

**Fruits** *cont.*  
*Recurvaria*, Hungary 1530  
Tephritidae, China 2210  
Tetranychidae, South Africa 11841  
*Tetranychus urticae*  
China 7806  
damage 7806  
Tortricidae, Europe 2544

**Frumenta**  
control, *Solanum elaeagnifolium*, evalua-  
tion 8982  
parasitoids 8982  
*Solanum elaeagnifolium*  
galls 8982  
South Africa 8982

**Fuchsia**, *Proserpinus clarkiae*, California  
8945

**Fuel oils**, toxicity, *Nasutitermes rippertii*  
2779

**Fulgoroidea**  
parasitoids 4092  
rice, Japan 7708

**Fulvius**  
America 1848  
taxonomy 1848

**Fumibotys fumalis**  
food plants, USA 1183  
monitoring, traps 1183

**Fumigants**  
application, trees 10865  
control  
*Bombyx mori*, pathogens 1237  
stored products pests 2816  
effects, man 7574

**Fumigation**, cereals, commodities, books  
5774

**Functional responses**, estimation 4103

**Fundella cistipennis** (see *F. pellucens*)

**Fundella pellucens**  
control, chemical control 2497  
cowpeas, Jamaica 2497

**Fungal insecticides** (see also Microbial  
pesticides)  
control, stored products pests 8016

**Fungi** (see also Entomogenous fungi)  
*Atta sexdens*, interactions 1974  
*Carvalhofulvius gigantochloae*, Peninsu-  
lar Malaysia 11126  
Coleoptera, Germany 1130  
Collembola 10268  
*Conotrachelus humeropictus*, interactions  
10911  
*Dendroctonus*, interactions 4735  
*Dendroctonus ponderosae*, interactions  
4725  
Diptera, Hungary 3681  
Formicidae, interactions 10361-10362  
hosts, Delphacidae 9477  
insecticides/insecticides, effects 3395  
insects, interactions 1140  
interactions, Scolytidae 9977  
*Lycoriella pleuroti*, China 12041  
*Oxyopus*, Illinois 6097  
soil arthropods, interactions 10292  
*Spodoptera littoralis*, interactions 10420  
stored products pests, interactions 6878  
Tingidae, secretions, effects 11192  
*Tritoma* 3033

**Fungicide tolerance**, *Kampimodromus aber-*  
*rans* 1560

**Fungicides**  
effects  
*Beauveria bassiana* 11477  
birds 451  
*Leptomastix dactylopii* 5340  
man 7574  
interactions, *Metarhizium anisopliae* 1336  
nontarget effects  
Acari 5357  
*Macrolophus caliginosus* 8378  
Phytoseiidae 9831  
*Stethorus punctillum* 11444  
Syrphidae 2111  
residues, residential areas, monitoring  
255

**Fungitarsenonemus**, coffee, habitats, Queen-  
sland 5596

**Furadan** (see Carbofuran)

**Furanocoumarins**  
effects  
*Depressaria pastinacella* 7051



**Furanocoumarins** *cont.*  
    effects *cont.*  
        *Papilio polyxenes* 9158  
**Furans**, effects, *Oncopeltus fasciatus* 10671  
**Furthiocarb**  
    control  
        arthropod pests, sugarbeet 11954  
        Collembola, *Brassica* 6578  
    insect pests  
        sugarbeet 11953  
        *Trifolium pratense* 2482  
        *Ophiomyia phaseoli*, *Phaseolus* 10770  
        *Oscinella frit*, maize 551  
        Tenebrionidae, field crops 5396  
    effects, *Somaticus* 4415  
    formulations 11572  
    mode of action 3313  
**Furia shandongensis**, hosts, *Forficula* 2155  
**Fusarium**  
    hosts, *Atherigona soccata* 2440  
    *Sitophilus zeamais*, interactions 6885  
    toxicity, *Galleria mellonella* 2200  
    vectors  
        insect pests 1272  
        Nitidulidae 9699  
**Fusarium culmorum**, *Sitobion avenae*, interactions 1429  
**Fusarium moniliforme** (see *Gibberella fujikuroi*)  
    toxins  
        effects  
            *Heliothis virescens* 5459  
            plants 5459  
**Fusarium oxysporum**, toxins, effects, *Heliothis virescens* 5459  
**Fusarium polyphialidicum**, hosts, *Lymantria dispar* 2183  
**Fusarium sambucinum** (see *Gibberella pulicaris*)  
**Fusarium solani**  
    toxins  
        effects  
            *Heliothis virescens* 5459  
            plants 5459  
**Fusarium subglutinans f.sp. pini**  
    vectors  
        Coleoptera 8913  
        Scolytidae 10961  
**Fytolan** (see Copper oxychloride)  
**Gabon**  
    *Anagyrus mangicola* 5164  
    *Gyranoidea tebygi* 5164  
**Gadus morhua**  
    insecticides, residues 1350  
    pesticides, residues 3360, 5343  
**Galactose**, mixtures, effects, *Choristoneura occidentalis* 4746  
**Galanthus nivalis**  
    extracts  
        antifeedants, *Nilaparvata lugens* 8614  
    effects  
        Aphididae 11564  
        Hemiptera 5269  
        insecticidal properties 5269  
        toxicity, *Nilaparvata lugens* 8478  
**Galapagos Islands**, Pterophoridae 5091  
**Galaxias maculatus**, pesticides, toxicity 5326  
**Galeatus spinifrons**, taxonomy 10087  
**Galeopsomopsis**, taxonomy, synonyms, of *Galeopsomyia* 1807  
**Galeopsomyia**, taxonomy, synonyms, *Galeopsomopsis* 1807  
**Galeruca tanacetii**  
    biochemistry, anthraquinones 10205  
    predators 10205  
**Galerucella**  
    biochemistry, chemical composition 1914  
    predators 1914  
**Galerucella griseescens**  
    Jiangxi 8053  
    parasitoids 8053  
**Galerucella lineola**  
    *Alnus incana*, resistance 11997  
    Beijing 11531  
    ecology, population dynamics 11997  
    pathogens 11531  
    plant extracts, attractants 7923  
    *Salix triandra* 7923  
**Galerucella luteola** (see *Pyrrhalta luteola*)  
**Galerucinae**  
    biochemistry, chemical composition 1914  
    predators 1914  
**Galiomyza richardii**  
    *Richardia brasiliensis*, Brazil 2858  
    taxonomy, new species 2858  
**Galleria**, pathogens 10450  
**Galleria mellonella**  
    *Acer*, Vermont 5658  
    *Beauveria sulfurescens*, toxins, effects 4195, 4200  
    biochemistry  
        defence 9503  
        development 4904  
        digestive system 11522  
        enzymes 367  
        immunity 3868  
        peptides 11230  
        proteins 8221  
    biology, development 308  
    cadmium, toxicity 1303  
    cell lines, *Beauveria sulfurescens*, toxins, effects 4200  
    comb honey 3297  
    control 3297  
    fungi, toxicity 2200  
    genetics  
        complementary DNA 8221  
        genes 2982  
        RNA 8231, 11272  
    growth regulators, effects 3410, 11683  
    heavy metals  
        effects 4227  
        toxicity 4228  
    insecticides  
        effects 3339  
        toxicity 4266  
    parasitoids 308, 2222, 3944, 4117, 5116, 7309, 11401  
    pathogens 367, 378, 1246-1247, 2203, 4187, 4190, 5658, 6226, 6228, 6257, 7395, 7400, 7405, 7866, 8406, 8409, 8415, 8418, 8420, 9490, 9503, 10456, 11509  
        effects 11522  
    physiology  
        cardiovascular system 2926  
        endocrine system 10194, 11272  
        reviews 2938  
        haemocytes 10198  
        haemolymph 4190  
        immune response 961, 7096, 11212  
    predators 2133  
    starvation, effects 10194  
    *Varroa jacobsoni*, interactions 11437  
**Gallerucida**, taxonomy 10117  
**Gallic acid**, effects, *Spathosternum prasiniferum* 8474  
**Gallinago gallinago**, insecticides, residues 5323  
**Galls**  
    *Acacia*, Cecidomyiidae 3772  
    *Achillea ptarmica*, *Macrosiphoniella mil-lefolii* 8006  
    *Ageratina adenophora*, *Procecidochares utilis* 8987  
    Aphididae 1062  
    *Argyrodendron actinophyllum*, insect pests 748  
    arthropods, ecology 3306-3307  
    Asteraceae, *Asphondylia borrichiae* 10985  
    *Borrichia frutescens*, *Asphondylia bor-richiae* 5706  
    broadleaves  
        Acari 10950  
        arthropods 11348  
    *Castanea pumila*, *Harmandia amisae* 5653  
    *Centaurea*, *Isocolus* 1225  
    chestnuts, *Dryocosmus kuriphilus* 7860  
    *Chrysanthamnus nauseosus*, *Aciurina trixa* 2727  
    Cupressaceae, *Chamaediplosis nootkaten-sis* 6803  
    *Cytisus praecox*, *Aceria genistae* 1713  
    *Cytisus scoparius*, *Torymus pascuorum* 1826  
    *Ephedra trifurca*, *Lasioptera ephedricola* 6822  
**Galls** *cont.*  
    *Epilobium hirsutum*, *Mompha divisella* 6027  
    Eriophyes 1543  
    Europe 11283  
    *Eurosta solidaginis*, insects 7257  
    forest trees  
        Acari 11347, 11979  
        Cecidomyiidae 6802  
    *Fraxinus excelsior*, Eriophyes *frax-inivorus* 3635  
    *Hyperomyzus lactucae* 3044  
    *Hyptis urticoides*, *Glyphipteryx* 10022  
    insects, UK 2848, 6947  
    *Inula crithmoides*, *Myopites longirostris* 7273  
    *Juniperus*, insects 12019  
    Loranthaceae, *Tuberaphis takenouchii* 4832  
    *Lythrum*, Cecidomyiidae 1826  
    *Microgramma squamulosa*, Gelechiidae 5687  
    *Nothofagus*, Pteromalidae 10935  
    ornamental woody plants, Eriophyoidea 1648  
    *Phillyrea angustifolia*, *Schizomyia phil-lyreae* 8888  
    Phragmites australis  
        insects 1753  
        *Lipara lucens* 7997  
    *Picea glauca*, *Sacchiphantes abietis* 7958  
    *Picea jezoensis*, *Adelges japonicus* 2016, 4743  
    *Pistacia*  
        Aphididae 8893  
        *Geoica* 3570  
    *Pistacia palaestina*, Aphididae 5568  
    *Populus ciliata*, *Epipemphigus marginalis* 23  
    *Populus fremontii*, *Pemphigus obesinymphae* 5649  
    *Populus tremuloides*, *Aceria parapopuli* 10947  
    *Pseudoregma bambucicola*, *Styrax suber-ifolia* 5812  
    *Quercus*  
        Cynipidae 10937  
        Cynipinae 7918  
        *Macrodiplosis* 3635  
    *Quercus acutissima*, *Trichagalma serrata* 11306  
    *Quercus robur*, *Contarinia quercina* 5809  
    *Rhamnus cathartica*  
        Cecidomyiidae 1826  
        *Trichohermes walkeri* 3652  
    rice, *Orseolia oryzae* 5440  
    *Rosa rugosa*, *Diplolepis polita* 6811  
    *Salix*  
        *Apion* 2669  
        arthropod pests 5650  
        *Phyllocolpa* 1675, 3646  
        *Pontania* 7924  
        *Pontania aestiva* 4846  
        *Pontania viminalis* 4846  
    *Salix lasiolepis*, *Euura lasiolepis* 4703  
    *Salix pentandra*, *Euura amerinae* 2668  
    *Salix viminalis*  
        *Dasineura ingeris* 8880  
        *Dasineura marginemtorquens* 10262  
    *Serratula tinctoria*, Tephritidae 8985  
    *Silphium integrifolium*, *Antistrophus silphii* 7718  
    *Solanum elaeagnifolium*, *Frumenta* 8982  
    *Solidago*, *Eurosta solidaginis* 8974  
    *Sonchus asper*, *Aulacidea follioti* 3124  
    *Spirostachys africana*, *Tanaostigmodes tambotis* 8054  
    *Styrax benzoin*, *Cerataphis fransseni* 4765  
    *Styrax japonica*, *Ceratovacuna japonica* 6774  
    *Styrax paralleloneura*, *Astegopteryx roepkei* 10956  
    *Styrax serrulata*, *Tuberaphis leeuweni* 10111  
    *Tamarix nilotica*, Eriophyidae 10949  
    *Taraxacum officinale*, *Phanacis taraxaci* 2760  
    *Taxus baccata*, *Taxomyia taxi* 1134  
    *Tilia europaea*, Eriophyidae 7930



**Galls cont.**

- Trichosanthes cucumerina*, *Lasioptera chichindae* 637  
*Ulmus davidiana*  
 Aphididae 4712  
*Kaltenbachia japonica* 6763  
*Urtica dioica*, *Dasineura urticae* 1759  
*Vaccinium angustifolium*, *Hemadas nubilipennis* 4572  
*Zelkova serrata*, *Hemipodaphis persimilis* 5035

**Gallus gallus**

- insecticides, effects 5338  
 prey, insect pests 2019

**Galumna flabellifera** (see *G. flagellifera*)**Galumna flagellifera**

- biology, environmental factors 11752  
 Egypt 11752  
 pathogens 11752

**Gambia**, Cerambycidae 2030**Gambusia affinis**, insecticides, toxicity 8525**Gamma-aminobutyric acid**, effects,

*Manduca sexta* 113

**Gamma-BHC** (see Lindane)**Gamma-HCH** (see Lindane)**Gamma radiation**

- control, arthropod pests, cut flowers 10049

**effects**

- Anastrepha obliqua* 1965, 10031  
*Apomyelois ceratoniae* 8240  
*Bactrocera dorsalis* 9261  
*Bactrocera tryoni* 6106  
*Cadra cautella* 176  
*Callosobruchus* 848  
*Callosobruchus chinensis* 6887  
*Ceratitis capitata* 3909  
*Corcyra cephalonica* 11048  
*Cryptolestes pusillus* 9262  
*Cylas formicarius*, sweet potatoes, commodities 9790  
*Plutella xylostella* 6013  
*Sitophilus oryzae* 11286  
*Steinernema carpocapsae* 10417  
*Tribolium confusum* 12077  
*Uromoides dermestoides* 8239

**Gammarus**, growth regulators, toxicity 4313**Gammarus pseudolimnaeus**, pesticides, toxicity 1343**Gammarus pulex**

- insecticides  
 effects 8111, 10603  
 nontarget effects 11819  
 toxicity 9634

**Gampsocleis gratiole**, physiology, sense organs 1898, 8109**Ganaspidium utilis**, insecticides, resistance 9612**Garcinia**, *Bactrocera kandiensis*, Sri Lanka 9894**Gardenia florida**, *Planococcus citri*, Bangladesh 5393**Gardenia jasminoides**, *Coccus viridis* 7965**Gardens**, habitats, Chrysopidae, Hungary 9443**Gardona** (see Tetrachlorvinphos)**Garlic** (*Allium sativum*)

- Aceria tulipae*, Honshu 6574, 9792  
*Acrolepia sapporensis*, Korea Republic 5487  
 arthropod pests 883  
 books 883  
 commodities, *Tyrophagus longior* 10040-10041  
*Delia antiqua*, Shanxi 11805  
 extracts  
 effects, *Callosobruchus maculatus* 9003  
 toxicity, *Nilaparvata lugens* 8478  
 pest control, Poland 1501  
*Suillia lurida*  
 damage 11806  
 Poland 11806

**Garouella ovicida**, *sLathromeris ovicida* 1212**Garra gotyla gotyla**, insecticides, toxicity 8528**Gastrimargus africanus sulphureus**, maize, Pakistan 1437**Gastrolina depressa**, predators 3196**Gastrophysa polygoni**

- Fallopia convolvulus*, UK 10696  
 insecticides, effects 10696  
*Polygonum aviculare*, Italy 10027  
 wheat, fields, UK 10696

**Gastrophysa viridula**

- Belgium 3860  
 biochemistry  
 defensive secretions 3860  
 secretions 4939, 7053  
*Rumex* 4784, 11012  
*Rumex crispus*, UK 4784  
*Uromyces rumicis*, interactions 4784, 11012

**Gastropoda**

- Achatina fulica* 352, 354, 965, 3249, 3251, 5201, 6219, 9457  
*Arianta arbustorum* 955, 3804, 3959, 5202, 8181, 11147  
*Arion* 4871, 5204  
*Arion ater* 350, 965, 7099  
*Arion distinctus* 350  
*Arion intermedius* 350  
*Arion silvaticus* 350  
*Arion subfuscus* 11102  
*Ariophanta bajadera* 6837  
*Bellamyia bengalensis* 3249  
*Bithynia tentaculata* 954  
*Bradybaena kiangsinensis* 9457  
*Bradybaena ravidia* 9457  
*Bradybaena similis* 9457  
*Bulinus truncatus* 8235  
*Candidula unifasciata* 11471  
*Cathaica fasciola* 9457  
*Cermuella virgata* 353  
*Cochlicella acuta* 353, 8403  
*Cochlicella barbara* 353  
*Deroceras agreste* 9457  
*Deroceras laeve* 1242  
*Deroceras panormitanum* 350  
*Deroceras reticulatum* 223, 350, 3050, 4136, 4405, 6454, 9390, 10807, 11600, 11723

*Discus cronkhitei* 223

*Euconulus fulvus* 223

*Euhadra peliomphala* 2924

*Helicoidea* 3252

*Helicopsis striata* 11471

*Helix aspersa* 137, 353, 356, 2869, 4134, 4969, 7991, 8413, 8566, 9427, 11472

*Helix aspersa aspersa* 5918

*Helix lucorum* 3248, 11473

*Helix pomatia* 118, 1244, 1912, 5893, 6217, 9332

*Incilaria fruhstorferi* 8150

*Laevicaulis alte* 1882, 5199

*Limax flavus* 2153, 9457

*Limax pseudoflavus* 1094

*Lymnaea acuminata* 4302

*Lymnaea auricularia* 8404

*Lymnaea luteola* 801

*Lymnaea peregra* 1923, 4132

*Lymnaea stagnalis* 120, 135-136, 355, 954, 1240, 2150, 6218

*Lymnaeidae* 348

*Milax rusticus* 5198, 10401

*Opeas gracile* 9457

*Physa fontinalis* 954

*Physidae* 348

*Pila globosa* 1882, 3249

*Pomacea* 2444-2445, 4135

*Pomacea canaliculata* 572, 3469, 3473, 5443, 5724, 6220, 7701

*Pugilina cochlidium* 1882

slugs 3482, 4133, 4405, 6914, 6928, 9390, 9671, 10467

snails 348, 1239, 5203, 6806, 6928, 7977, 10467

*Tandonia budapestensis* 350

*Tandonia sowerbyi* 350

*Theba pisana* 353, 435, 1132

*Trochoidea geyeri* 11471

*Veronicellidae* 1241

*Zonitoides arboreus* 2023

*Zootecus insularis* 5197

*Ajuga*, Hungary 10998

biology 1242, 1971

cadmium, markers 9332

control 1242

Denmark 2151

**Gastropoda cont.**

- distribution  
 Japan 3250  
 Slovakia 7379  
 ecology 1971  
 ecosystems 5082  
 habitats 8669  
 endocrine system 137  
 Germany 5203  
 grasslands  
 Germany 1243  
 UK 8669, 11009  
 grazing, effects 1243  
 heavy metals, indicator species 8405  
 herbicides, effects 10403  
 insecticides, residues 10621  
 Irish Republic 7378  
 plants, resistance 11681  
 Poland 1242  
 predators 223  
 rearing techniques 9458  
 rice, Philippines 572  
 soil 1971  
 Spain 10283  
 taxonomy 3737

**Gaucho** (see Imidacloprid)**Gaurax perreirai**

- bananas, Hawaii 5551  
 taxonomy, new species 5551

**Geigeria alata**, seeds, insects, Namibia 3684**Geigeria ornativa**, seeds, insects, Namibia 3684**Geisha**, Oriental Region 49**Gekkonidae**, prey, *Tenebrio molitor* 7373**Gelechiidae**

- biology, behaviour 737  
 forests, Virginia 11986  
*Gutierrezia*, Argentina 5716  
*Microgramma squamulosa*  
 galls 5687  
 Sao Paulo 5687  
 parasitoids 11108

**Gelechioidea**

- ecology, population dynamics 728  
 forests, Kalimantan 728  
 monitoring, traps 728

**Gelis**

- Bromus inermis*, habitats, Indiana 2475  
 hosts

*Aleiodes stigmator* 2475

*Bathyplectes* 8682

*Platypitilia carduidactyla* 5725

lucerne, fields, West Virginia 8682

**Gelis longulus**

- hosts, *Ocnorostoma pinariellum* 3232  
 taxonomy 3232

**Gelis tenellus**

- Bromus inermis*, habitats, Indiana 2475  
 hosts, *Aleiodes stigmator* 2475

**Geminivirus**, vectors, *Bemisia tabaci* 7473**Geminivirus group**, vectors, *Bemisia tabaci* 4207, 4209**Geminiviruses**

- vectors  
 Aleoerodidae 7783  
 insects 2803

**Genetic engineering**

- Azospirillum*, genes 7468  
*Bacillus*, toxins 8431  
*Bacillus thuringiensis* 7472, 9520, 10497  
 gene transfer 6245  
 pest resistance 559, 703, 2233, 2632, 4701, 8931  
*Bacillus thuringiensis* subsp. *israelensis*,  
 gene transfer 9465  
*Bacillus thuringiensis* subsp. *japonensis*,  
 toxins 4165  
*Bacillus thuringiensis* subsp. *tenebrionis*,  
 toxins, genes 11479  
*Baculoviridae*, reviews 7446  
*Baculovirus*, pest resistance 2430  
 biological control agents 5257  
 reviews 6274, 9531  
 field crops, *Bacillus thuringiensis* 10683  
 insect viruses 7445  
 enzymes, production 5242  
 reviews 9491  
 microbial pesticides, reviews 9531  
 nuclear polyhedrosis viruses, gene transfer 6230  
 pest control 2231



**Genetic engineering cont.**

pest resistance 2230, 7501, 9534-9535  
tobacco, pest resistance 2621, 7885, 9946

**Genetic variation, UK, conferences 10065****Genetics**

*Acanthoscelides obtectus*, population genetics 8237  
Acrididae  
chromosomes 4990  
mitochondrial DNA 7149  
Acridoidea 1032  
*Acyrtosiphon pisum*  
DNA 8230  
genetic variation 4467  
population genetics 174  
*Adalia bipunctata* 1018  
genetic polymorphism 172  
population genetics, colour 9259  
*Aetalon reticulatum*, karyotypes 943  
*Agelena limbata*, chromosomes 2967  
*Agrotis ipsilon*, gene flow 6084  
Aleyrodidae 5003  
*Allonemobius*, hybridization 6002  
*Alphitobius diaperinus*, DNA 1016  
*Amphorophora idaei*, DNA 7827  
*Andricus quercuscalicis*, population genetics 1666  
Aphididae  
genomes 5994  
population genetics 7297  
*Aphidius ervi*, genes 9237  
Aphidoidea, chromosomes 3891  
*Aphidoletes aphidimyza*, DNA 10137  
*Aphis craccivora*, chromosomes 8189  
*Aphis gossypii*, chromosomes 7127  
*Aphytis melinus*, population genetics, insecticide resistance 5334  
Araneae, silk, proteins 11247  
*Arianta arbustorum*, reproduction 8181  
arthropods  
books 12088  
DNA 5987  
evolution 5008  
mitochondrial DNA 5989  
nucleotide sequences 5988  
transposable elements, reviews 7129  
*Asobara tabida*, genetic variation 6065  
*Atta laevigata*, DNA 3876  
*Autographa californica*, nuclear polyhedrosis viruses, genes 5005, 5241  
*Azospirillum*, genes 7468  
*Bacillus*  
gene transfer 3280  
toxins 8431  
*Bacillus atticus*  
biochemistry 5010  
parthenogenesis 1017  
*Bacillus popilliae*, plasmids 5219  
*Bacillus rossius* 1013  
*Bacillus thuringiensis*  
chromosomes 5240  
DNA 11485  
DNA amplification 10421  
gene expression 8407, 11491  
gene transfer 3255, 6119, 6245  
genes 1268, 4665, 7468, 9521  
toxins 357, 9713, 11777  
genetic engineering 5234, 10425  
proteins 8437  
nucleotide sequences 6251  
proteins 5239-5240  
reviews 5210  
toxins 4481  
gene expression 7387  
*Bacillus thuringiensis* subsp. *galleriae*, genes, toxins 5243  
*Bacillus thuringiensis* subsp. *israelensis*, gene transfer 9465  
*Bacillus thuringiensis* subsp. *japonensis*, toxins 4165  
*Bacillus thuringiensis* subsp. *morrisoni*, transposable elements 7386  
*Bacillus thuringiensis* subsp. *tenebrionis*, toxins, genes 11479  
*Bacillus thuringiensis* subsp. *thompsoni*, genes, crystal proteins 7385  
*Bactrocera*, chromosomes 8341  
*Bactrocera dorsalis*, genes 1934  
Baculoviridae  
gene expression 6250, 7128, 10221

**Genetics cont.**

Baculoviridae cont.  
genes 2180, 5212, 9476  
genetic engineering 1267, 2054, 9033, 10071  
genetic vectors 1271  
*Baculovirus*, gene transfer 5991  
*Beauveria*, ribosomal DNA 4161  
*Beauveria brongniartii*, DNA 11504  
*Bemisia tabaci*  
biotypes 5003  
gene frequency 175  
*Bicyclus anynana*, genetic variation 7116  
*Bolitotherus cornutus* 2014  
*Boloria*, population genetics 1059  
*Bombyx*, retrotransposons 4989  
*Bombyx mori* 1047, 6213, 8195, 9254, 10215, 11264, 11468-11469  
breeding 9455  
cell division 5191  
chromosome pairing 3246  
chromosomes 1936, 7135  
combining ability 8179  
complementary DNA 8222, 10221  
DNA 1048, 7372  
DNA fingerprinting 147  
gene expression 1038, 1937, 3882, 8218, 11251  
proteins 5190  
genes 194, 2972, 4130, 5195, 8398, 10394  
proteins 11269  
regulation 7377  
sequences 161  
silk glands 9240  
genetic variation 8401  
messenger RNA 1944  
parthenogenesis 7017  
population genetics 9253  
reproduction 5194  
RNA 2974  
proteins 9231  
strains 3243  
varieties 9227  
*Bradysia coprophila*, DNA 9230  
Bruchidae, mitochondrial DNA 10341  
*Buchnera aphidicola*, DNA 8347  
*Bulinus truncatus*, population genetics 8235  
*Callosobruchus maculatus* 11047  
reproduction 5953  
Carabidae  
cytogenetics 158  
karyotypes 7341  
*Carabus*, genes, ubiquitin 7361  
*Cavelerius saccharivorus*, polymorphism 1963  
Cerambycidae, cytogenetics 5973  
*Ceratitis capitata* 3002  
chromosomes 1947, 3883  
development 11236  
DNA 1049  
genetic markers 169  
genetic variation 6010  
genome analysis 4995  
mitochondrial DNA 8204  
mutations 8464  
population genetics 10233  
proteins 8234  
restriction mapping 11256  
strains 11240  
*Choristoneura*, mitochondrial genetics 7124  
*Choristoneura rosaceana*, genetic variation 6008  
*Chorthippus*, chromosomes 11237  
*Chorthippus parallelus*  
hybridization 3092, 6012  
population genetics 2990  
reproduction 3908  
*Chrysomela scripta*, genes, diversity 10223  
Chrysomelidae, sex chromosomes 11241  
*Chrysoperla*, differentiation 6006  
Cicindelidae, ribosomal DNA 8196  
Coccinellidae, genetic markers 3152  
*Coleomegilla maculata* 1493  
Coleoptera  
gene expression 1012  
insecticide resistance 10210  
*Colias*, hybridization 3030

**Genetics cont.**

*Cordylolichers scorpioides*, alleles 4993  
*Cylas formicarius*, chromosomes 4988  
cytoplasmic polyhedrosis viruses  
gene expression 1935  
genes 4156  
*Danaus plexippus*, genes 2964  
*Delia*, meiosis 8229  
*Dianemobius* 1014  
*Diatraea grandiosella* 11275  
*Dichroplis pratensis*, chromosomes 2976, 3877  
*Dioryctria*, alleles 11234  
*Dioryctria disclusa*, population genetics, variation 10232  
*Diprion pini*  
genetic variation 5874  
population genetics 6178  
Diptera, evolution 9103  
*Dolichovespula maculata*, genes, venoms 8408  
*Drepanosiphum platanoidis*, population genetics 5652  
*Drosophila* 157, 1004, 1019, 1028, 1042, 1054, 1925, 2945, 2948, 3900, 4994, 4996, 4999, 5001-5002, 5966, 7139-7140, 7142, 8182, 10216, 11137, 11242, 11266, 11268, 11356  
amino acids 167  
cell division 5954  
chromosomes 1015, 5963, 10209  
cytogenetics 7125  
development 1924, 4983, 7117  
DNA 2951, 5990, 11255  
embryonic development 3797  
endocrine system 8192, 8225  
enzymes 2963  
evolution  
reviews 8224  
wings 8099  
gene expression 1055, 4992, 5955, 5958, 5964, 5967, 5979-5982, 8194, 11250  
genes 154, 1040, 1050, 1930, 2979-2980, 2986, 3885-3886, 4997-4998, 5961, 5968-5969, 7131, 7136, 7138, 7141, 7144, 8184, 8191, 8209, 8212, 8227, 9226, 9248, 11252  
reproduction 3872  
wings, development 7145  
genetic variation 1025, 3899  
genome analysis 2952  
hybridization 5999  
immune response 1005  
immune system 148  
insecticide resistance 2968, 9833  
interspecific hybridization 7133  
inversion polymorphism 1941  
karyotypes 10228  
meiosis 10211  
mitochondrial DNA 11262  
molecular genetics 11261  
mosaics, cell markers 8197  
mutations 1034, 7120  
nervous system 7143  
population genetics 1057, 1962, 3893, 3904, 3906, 7115, 10231  
proteins 2958  
RNA 2969-2970  
sterility 156  
transposable elements 1037  
wings, pattern formation 5950  
*Drosophila ananassae* 2991  
behaviour 3001  
chromosomes 5007  
genes 8216  
population genetics 3903  
*Drosophila athabasca* 11281  
*Drosophila auraria*, cytogenetics 1031  
*Drosophila biarmipes* 4980  
*Drosophila bipectinata*  
polymorphism 9224  
population genetics 1060  
*Drosophila busckii*, biochemical polymorphism 2961  
*Drosophila buzzatii* 7173, 8185, 8187  
alleles 2998  
chromosome polymorphism 2947  
heat resistance 3000  
polymorphism 10237



## Genetics cont.

- Drosophila buzzatii* cont.  
retrotransposons 9232  
sexual selection 9256
- Drosophila hydei*  
chromosomes 8190  
genes 11254
- Drosophila immigrans*, population genetics 3892, 3907
- Drosophila kikkawai*, population genetics 7111
- Drosophila malerkotiana*, population genetics 3905
- Drosophila mauritiana*  
behaviour 2988  
variation 5996
- Drosophila mediopunctata*  
chromosomes 8180  
population genetics 10130
- Drosophila melanogaster* 1021, 1024, 1029, 1931-1932, 1940, 1953-1955, 2944, 2989, 2993, 2997, 3871, 3884, 5006, 5014, 5305, 6003, 7137, 8183, 8206, 8208, 8213, 8232, 8246, 9243-9244, 9246, 9249-9251, 9255, 10214, 10217-10218, 10229  
aging 5998  
behaviour 1960, 2966  
chromosomes 152, 5960, 7114, 7121, 11243  
circadian rhythm 11267  
cytogenetics 1058  
development 3887  
DNA 163, 4986, 10227  
endocrine system 8193  
evolution 166  
flight 1035  
gene conversion 8226  
gene expression 1933, 2950, 7119, 7122, 8200, 8228  
genes 155, 164, 1045, 2949, 2981, 2999, 5000, 5962, 5970, 5978, 7123, 8207, 8210-8211, 9234, 9236, 11273-11274  
genetic variation 1950, 2995, 3902  
genomes 1023, 5965  
genotype environment interaction 2962  
inbreeding 10230  
insecticide resistance 1943, 8505  
meiosis 151, 1033  
mitosis 1921  
mutants 3874  
mutations 1020, 2953, 2971, 5971-5972, 8214, 9247  
pesticide resistance 11276  
polymorphism 1959, 6000, 6005  
population genetics 11257  
reproduction 4982  
segregation distortion 7130  
tolerance 1006  
transposable elements 2992, 5015  
models 1952
- Drosophila melanogaster* group 10226
- Drosophila montium*, population genetics 5957
- Drosophila nebulosa*, population genetics 3895
- Drosophila obscura* group  
DNA 1041  
polymorphism 3881
- Drosophila repleta* group 11279
- Drosophila serrata*, population genetics 1009-1010
- Drosophila simulans* 2978  
chromosomes 1926  
genes 1922, 2957  
genetic polymorphism 2975  
population genetics 1056  
reproduction 1036
- Drosophila subobscura*  
chromosome polymorphism 10236  
chromosomes 129, 2977  
polymorphism 8223  
cytogenetics 3879  
mitochondrial DNA 1951
- Drosophila suzukii*, genes 11232
- Drosophila tripunctata* group, population genetics 3898

## Genetics cont.

- Drosophila virilis*  
chromosomes 153  
genes 1022
- Drosophila virilis* group 924
- Drosophila willistoni*, chromosomes 3878
- Drosophilidae* 1027  
nucleotides 168
- Dryas julia*, population genetics 5011
- Dryocosmus kuriphilus*, chromosome number 149
- Dysdercus koenigii*, mutations 5956
- Empoasca fabae*, diversity 9745
- Encarsia berlesii*, chromosomes 6118  
entomogenous fungi, mutants 4154
- Entomopoxvirinae  
genes 11483  
reviews 9464
- Ephesia kuehniella*  
chromosomes 3890  
satellite DNA 5004
- Eyprepocnemis plorans*  
chromosomes 2983  
DNA 7134  
heterochromatin 8233  
population genetics, polymorphism 9258
- Formica rufa*, *Formica polyctena*, hybridization 5146
- Formicidae  
chromosomes 10212  
genes 5143  
genetic variation 7118
- Galleria mellonella*  
complementary DNA 8221  
genes 2982  
RNA 8231, 11272  
genes 1022
- Glabromicroplitis croceipes*, mutants 8238
- Gomphocerus sibiricus*, cytogenetics 1185  
granulosis viruses  
genomes 7431  
molecular genetics 4171
- Gryllotalpa africana*, chromosomes 170
- Gryllus firmus*, genetic correlation 7113
- Heliconius erato*, evolution 2959
- Helicoverpa punctigera*, inbreeding 9260
- Helicoverpa zea*  
DNA 2960  
genes 9236
- Heliothis*, pheromones 9225
- Heliothis virescens*  
genes, enzymes 4914  
mitochondrial DNA 5992  
mutants 3889
- Hemitaxonus*, DNA 4991
- Heptaphylla picea* 150
- Heterorhabdus bacteriophora* 377
- Hyalophora cecropia*, genes 7132
- Hymenoptera  
chromosomes 4987  
DNA amplification 9381  
models 1948
- Hypodryas gillettii*, population genetics 173
- Hypothenemus hampei*  
genes 9583  
insecticide resistance 258  
genetic diversity 9939
- insect pests, insecticide resistance 6282  
insecticide resistance, resistance mechanisms 7526
- insects  
actin 8199  
books 6911  
chromosomes 5117  
DNA 4981  
extraction 11235  
evolution, wings 8099  
gene expression 1011  
genes 11239  
genetic diversity 10239  
genetic variation 9229  
mitochondrial DNA 5975, 11270  
nucleotide sequences 160, 5986  
ribosomal RNA 10220  
RNA 1043  
techniques 5976  
transposable elements 8198

## Genetics cont.

- Ips pini*, population genetics 5666
- iridescent viruses  
DNA 5216  
genes 8438
- Iridoviridae, genetic mapping 10408
- Jadera haematoloma*, polymorphism 5993
- Kaltenbachella japonica*, genetic variation 6763
- Larinus cynarae* 12053
- Lepidoptera  
chromosomes 5009  
pheromones 925
- Leptinotarsa decemlineata* 4494  
genes, nucleotide sequences 9235  
mutations 3873
- Leptinotarsa juncta*, natural selection 3059
- Leptopilina heterotoma*, behaviour 11439
- Leptothorax acervorum*, genetic variation 10234
- Lipaphis erysimi*, chromosomes 1927
- Locusta migratoria*  
chromosomes 5959, 8186  
colour 3875  
RNA 1939
- Lycosidae, chromosomes 11434
- Lymantria*, DNA 8236
- Lymantria dispar*  
DNA 8217  
genes 165  
genetic variation 11284  
RNA 8205
- Lymnaea peregae*, inheritance 1923
- Lymnaea stagnalis*  
genes 136  
nucleotide sequences 1240
- Malacosoma disstria*, genes 9207
- Mamestra brassicae*, polymorphism 5952
- Manduca sexta* 997, 5977  
complementary DNA 8202  
enzymes 11258  
gene expression 8510, 11248  
genes 1946, 5995, 10224, 11253, 11260
- Mayetiola destructor*, DNA 6435
- Megastelia scalaris*, mutants 5974
- Megoura viciae*  
chromosomes 2984  
DNA 11259
- Melanoplus*, ribosomal DNA 5985
- Melanoplus sanguinipes*, genetic variation 7107
- Metarhizium*, DNA 8441
- Metarhizium anisopliae*  
population genetics 10440  
RNA 6222
- Metarhizium flavoviride*, population genetics 10440
- Metaseiulus occidentalis*, DNA 8203
- Mononychellus progresivus*, DNA 4497
- Myrmecia pilosula*, chromosomes 4085
- Myrmica*, gene flow 8188
- Myzus*, insecticide resistance 3341
- Myzus persicae*  
genes 11263  
insecticide resistance 9238
- Nasonia vitripennis*  
cell culture 159  
sex ratio 1207
- Neodiprion*, heterozygosity 2996
- Nephila clavipes*, development 957
- Nephotettix* 6488
- Nephotettix virescens*  
genetic variation 11740  
resistance 11741
- Nephrotoma ferruginea*, chromosomes 10222
- Noctuidae  
genetic engineering, cell lines 9236  
population genetics 2987
- Nosema*, DNA probes 9460
- Nosema bombycis*, chromosomes 5207
- Nosema locustae*, chromosomes 6225
- nuclear polyhedrosis viruses 4201, 5236, 6231, 6233, 6249, 6253, 7443, 10426  
DNA 10409, 11482  
recombination 8439  
DNA replication 11487



**Genetics cont.**

- nuclear polyhedrosis viruses *cont.*
- gene expression 4169, 5227, 8423
- toxins 7457
- gene transfer 6230
- genes 1253, 4150, 4170, 9485
- transcription 11480
- genetic engineering 1443, 5224, 5233, 5242, 9236, 9507, 10410, 10416, 10424, 11492, 11496
- genetic vectors 1270
- genomes 7444
- mutants 10405
- mutations 9486
- nucleotide sequences 4167, 5214, 8426, 8430
- plasmids 6252
- Occidryas editha*, population genetics 10235
- Operophtera brumata*, genetic variation 4696
- Oreina* 1957
- Oryctes rhinoceros*, chromosomes 1259, 10443
- Ostrinia furnacalis*, chromosome aberrations 1964
- Oxya*, chromosomes 9228
- Oxya bicingula*, karyotypes 19
- Oxya japonica* 1052
- Paecilomyces farinosus*, DNA 11513
- Paecilomyces fumosoroseus*, variability 9497
- Panaxia dominula*, population genetics 3032
- Panonychus citri*, variation 1958
- Papilio machaon*, DNA 3888
- Papilio polyxenes*
- genes 1945, 11249
- messenger RNA 9158
- Parnassius mnemosyne*, population genetics 6011
- Pectinophora gossypiella*, mutants 8344
- Photinus pyralis*, gene transfer 1942
- Phytoseiidae, transformation 4099
- Pieris*, gene flow 7147
- Pieris napi*, population genetics 3901
- Pissodes strobi* group, mitochondrial DNA 11282
- Platycampus luridiventris*, population genetics 5656
- Plodia interpunctella*, development 5853
- Plutella xylostella*
- DNA 11592
- insecticide resistance 5222, 6248, 9580, 10539-10540
- population genetics 9582
- Polydnaviridae 1003, 5215
- gene expression 171
- Pomacea canaliculata*, population genetics 6220
- Prodoxidae, mitochondrial DNA 5984
- Pseudaulacaspis pentagona*, population genetics 7836
- Psylloidea, karyotypes 7126
- Pyralidae, cytogenetics 11246
- Pyrgomorpha conica*, chromosomes 1929
- Pyrrhalta luteola*, genes, diversity 10225
- Rhagoletis*
- chromosomes 2965
- gene frequency 9857
- population genetics 7148
- Rhopalocera
- evolution 3020, 9103
- gene expression 2955
- Rhopalosiphum padi*, genetic variation 6007
- Samia cynthia*, messenger RNA 9242
- Scarabaeidae, karyotypes 5983
- Schizaphis graminum*
- DNA 5997
- DNA fingerprinting 539
- pest resistance 10723
- Serratia entomophila*
- mutations 2167
- strains, identification 9462
- Sigmavirus*, genes, sequences 11486
- Sitobion avenae* 5105
- clonal variation 7672
- DNA fingerprinting 5105
- population genetics 7641

**Genetics cont.**

- Sitobion rosaeiformis*, population genetics 11245
- Sitona sulcifrons*, polymorphism 5012
- Sitophilus zeamais*, insecticide resistance 1329
- Solenopsis*, DNA 8340
- Solenopsis invicta*, reproduction 11278
- Spathosternum prasiniferum*, chromosomes 8474, 8961
- Spodoptera frugiperda*
- cell lines
- gene transfer 2985
- genetic engineering 5951
- DNA 162
- genetic variation 1046
- Tenebrio molitor*
- DNA 2956
- genes, proteins 11271
- Tephritidae, conferences 5766
- Tetramorium* 3880
- Tetranychus quercivorus*
- hybridization 10238
- incompatibility 10938
- reproduction 6009
- Tetranychus urticae*
- mitochondrial DNA 8201
- population genetics 87
- Tetraviridae, genes 10411
- tomato spotted wilt tospovirus, RNA 11516
- Tortricidae 527
- population genetics 11280
- Tribolium*, genetic variation 2954
- Tribolium castaneum* 3056, 4984
- artificial selection 6122
- development 5013
- DNA 9239
- genes 8215, 9245
- genetic variation 8022
- hybridization 6001
- insecticide resistance 4255
- Trichogramma*
- behaviour 4118
- DNA 7362
- DNA fingerprinting 11244
- population genetics 3212
- restriction fragment length polymorphism 11433
- Trichoplusia ni*, complementary DNA 8219
- Trilophidia annulata*, chromosomes 9233
- Trimerotropis pallidipennis*, genetic variation 3897
- Viteus vitifoliae* 9877
- Yponomeuta*, mitochondrial DNA 9089
- Yponomeuta padellus*, gene flow 1997
- Zaprionus indianus*, genes 2973
- Zootermopsis*, mitochondrial DNA 9241
- Zootermopsis angusticollis*, outbreeding 1961
- Genista*, *livilla spectabilis*, Turkey 1148
- Genista scorpius*, *Hemineura bigoti*, Spain 2729
- Genista tinctoria*, *Agonopterix ulicetella* 11013
- Gentiana*, Aphididae 10993
- Geocoris**
- cotton, fields, California 1636
- ecology, population dynamics 4468
- fertilizers, effects 4468
- food plants, Sao Paulo 6737
- hops, fields, Washington 6834
- lucerne, fields, California 4661
- prey
- Aphis gossypii* 1636
- Phorodon humuli* 6834
- soyabeans, fields, Florida 4468
- taxonomy 3752
- Geocoris amabilis*
- cotton, fields, Kenya 1626
- prey, *Helicoverpa armigera* 1626
- Geocoris borealis*
- cashews, plantations, Northern Territory 3752
- taxonomy, new species 3752
- Geocoris hakeae*, synonyms, *Strylogeoris biroti* 3752
- Geocoris jakowleffi*, taxonomy, synonyms, of *G. pallidipennis* 11090
- Geocoris lubra*, taxonomy 3752

- Geocoris megacephalus*, taxonomy, synonyms, *G. persicus* 11090
- Geocoris ochropterus**
- biology 1620
- life cycle 5256
- control, *Toxoptera aurantii*, evaluation 5256
- prey
- arthropod pests, tea 1620
- Toxoptera aurantii* 5256
- Geocoris pallidipennis*, taxonomy, synonyms, *G. jakowleffi* 11090
- Geocoris persicus*, taxonomy, synonyms, of *G. megacephalus* 11090
- Geocoris punctipes**
- cotton
- fields
- Arizona 712
- Texas 4670
- prey
- Helicoverpa zea* 4670
- insect pests 712
- Geocoris ventralis*, food plants, Sao Paulo 6737
- Geoffroea decorticans*, *Dorcacerus barbatus*, Argentina 4689
- Geographical information systems, Aleurocanthus woglumi, Citrus 4550**
- Geocica harpazi**
- Pistacia*, galls 3570
- taxonomy, new species 3570
- Geocica muticae**
- Pistacia*, galls 3570
- taxonomy 3570
- Geocica rungsi**
- Pistacia*, galls 3570
- taxonomy 3570
- Geocica utricularia**
- Pistacia*, galls 3570
- Pistacia palaestina*
- galls 5568
- Israel 5568
- taxonomy 3570
- Geocica wertheimae**
- Pistacia*, galls 3570
- taxonomy, new species 3570
- Geometridae**
- attractants, synthesis 9966
- biochemistry, pigments 144
- control, integrated control 10839
- distribution
- Germany 1164
- Korea Republic 6094
- Mexico 7269
- Eucalyptus*, Brazil 1660
- evolution, phylogeny 10119
- Fagus*, Slovakia 3642
- ferns 10119
- forests
- Honshu 9966
- Virginia 11986
- fruit trees, Jiangsu 10839
- insects as food 11470
- Japan 11150
- Kalimantan 34
- morphology 2871
- pupae 11150
- plants, UK 2397
- Spain 2028
- taxonomy 34, 10100
- Geomyza tripunctata**
- biology 6505
- behaviour 3935
- grasslands, UK 3935
- Lolium perenne*, UK 6505
- natural enemies 6505
- Geotrupidae**
- ecology, biomass, estimation 6023
- grasslands, Spain 6023
- Geraniol**
- attractants
- Frankliniella occidentalis* 3305
- Spilarcia obliqua* 4369
- effects, *Lygus lineolaris* 7517
- mixtures, attractants, *Anomala octiescostata* 2766
- Geranium dissectum**, mycotoxins, effects 5459
- Geranium viscosissimum**, extracts, effects, Coleoptera 10053
- Geraniums** (see *Pelargonium*)



**Gerbera**

*Bemisia tabaci*, Netherlands 4759  
*Liriomyza trifolii* 10275  
 Japan 10355

**Gerbera jamesonii**

Aleyrodidae 2717  
 arthropod pests 1714  
*Trialeurodes vaporariorum* 796

**Germalus**, taxonomy 3752**Germany** 1650

*Aesculus hippocastanum*, *Cameraria ohridella* 4717  
 agricultural chemicals, usage 3317  
*Allium*, *Thrips tabaci* 10796  
*Allium ursinum*, Syrphidae, parasitoids 7263  
*Alnus*, *Platycampus luridiventris* 5656  
 Aphididae 5103, 7260  
   natural enemies 9383  
 apples  
   Acari 5524  
   arthropod pests 10842  
   *Cydia pomonella* 4559  
   insect pests 8753  
   orchards, predatory mites 5524, 6642  
   Tetranychidae 6642  
 arable land, beneficial insects 1223  
*Arge*, parasitoids 1826  
 barley  
   fields  
     beneficial insects 6451  
     Coleoptera 10702  
 birds, insecticide residues 2342  
 bogs, Araneae 10284  
 Carabidae 1123, 1128, 2394, 10304, 10307  
*Cephalcia abietis* 5066  
 Cerambycidae 8311  
 cereals  
   Aphididae 1420, 2405, 3423  
     predators 1423, 8625  
   fields  
     beneficial arthropods 6426  
     insects 1125  
     predatory arthropods 6425  
     insect pests 3424  
     pests 9671  
   *Sitobion avenae* 7642-7643  
 chemicals, legislation 7512  
*Chilocorus bipustulatus* 8377  
 chlorinated hydrocarbons, usage 3322  
 Chloropidae 11122  
*Cirsium*, *Agapanthia villosiviridescens* 1226  
*Clitostethus arcuatus* 8313  
*Crataegus*  
   *Cacopsylla*, natural enemies 6813  
   Coleoptera 6749  
 crops  
   fields  
     arthropods 5401  
     Diptera 5397  
   insect pests, natural enemies 2130  
   *Isotoma notabilis* 6088  
   *Melolontha melolontha* 8620  
   pest control 3317  
   pests, damage, information systems 11393  
 cucumbers  
   *Aphis gossypii* 10832  
   greenhouses, insects 10832  
   *Cydia nigricana* 9526  
   *Dasineura urticae*, parasitoids 1759  
   Diptera 541  
   Drosophilidae 1077  
   dwellings, insecticide residues 7606  
   environment, acaricide residues 10639  
   *Euphorbia pulcherrima*, Aleyrodidae 1716  
 faba beans  
   Aphididae 7736  
   *Aphis fabae* 1476  
   fields, predatory arthropods 7736  
*Fagus sylvatica*  
   *Cryptococcus fagisuga* 1672  
   *Phyllaphis fagi* 8876  
 fields, Hymenoptera 11344  
 fishes, pesticide residues 2334  
 food plants, *Otiorynchus sulcatus* 4574  
 forest trees  
   Coleoptera 1649, 11977

**Germany cont.**

forest trees cont.  
   insect pests 5625  
   *Lymantria dispar* 4679  
   wood, Coleoptera 1642  
*Forficula auricularia*, natural enemies 305  
*Formica* 286  
 fungi, Coleoptera 1130  
 Gastropoda 5203  
 grain legumes, Aphididae 10769  
 grapes  
   arthropod pests, natural enemies 6667  
   *Eupoecilia ambiguella* 4577  
   predators 5540  
   *Hyalesthes obsoletus* 3547  
   *Lobesia botrana* 2575, 11877  
   *Viteus vitifoliae* 9864  
 grasslands  
   *Amphimallon solstitialis*, natural enemies 2187  
   arthropods 1126  
   Carabidae 1127, 1228  
   Gastropoda 1243  
   insects 3174  
 habitats  
   Diptera 1083  
   predatory arthropods 1101  
   *Pterostichus* 6998  
 hedges, predatory arthropods 2113  
 insecticides, usage 1549  
 insects 1122  
*Larix decidua*, *Ips cembrae* 781  
 leeks, *Acrolepiopsis assectella* 97  
 Lepidoptera 1164  
*Leptothorax acervorum* 10234  
 lettuces, Aphididae 11817  
*Lymantria dispar* 7909, 11284  
*Lymantria monacha* 9294  
 maize  
   insect pests 4414  
   *Ostrinia nubilalis* 10705  
 man  
   pesticide residues 7602  
   pesticides, poisoning 7600  
 museums, *Tineola bisselliella* 1762  
 mushrooms, *Lycoriella* 6838  
 Nepticulidae 10306  
 Noctuidae 10305  
*Oenopia impunctulata* 8312  
 ornamental plants, arthropod pests 10990  
 pesticides  
   legislation 7525  
   residues, legislation 3598  
   storage 2270  
   usage 3323, 10508  
*Phoca vitulina*, insecticide residues 5341  
*Phragmites australis*  
   Archanara 1745  
   insects 1753  
*Picea*, Scolytidae 12016  
*Picea abies*  
   forests, *Medetera dendrobaena* 10972  
   insecticide residues 10968  
   *Ips typographus* 3660  
   *Pityogenes chalcographus* 10972  
*Pinus*  
   Auchenorrhyncha 1637  
   *Diprion pini* 5669  
*Pinus sylvestris*  
   *Bupalus piniarius* 8905, 9986  
   forests, Coleoptera 7944  
   pesticide residues 5671  
 plant protection  
   computer software 380  
   equipment 1318  
   legislation 9542  
   reports 9020  
 pome fruits, integrated pest management 10842  
*Populus*  
   Coleoptera 1673  
   insect pests 7920  
 potatoes  
   *Leptinotarsa decemlineata* 1492  
   pest control 1491  
 precipitation, pesticide residues 4341  
*Quercus*, *Agrilus pannonicus* 8872  
*Quercus robur*, *Contarinia quercina* 5809  
 rain, insecticide residues 2368

**Germany cont.**

red currants, *Synanthedon tipuliformis* 1556  
 rivers, pesticide residues 3393  
 salt land, Carabidae 1131  
 soil, pesticide residues, determination 10658  
 soil fauna 1124  
*Sorbus*, Buprestidae 6749  
 stored products, pesticides, residues, legislation 7601  
 stored products pests, control 1761, 12064  
 strawberries  
   arthropod pests 10863  
   greenhouses, predatory arthropods 10863  
   *Phyllobius pomaceus* 7830  
 sugarbeet  
   Aphididae 2610  
   insect pests 10907  
 Tachinidae 1162  
*Thanasimus pectoralis* 8314  
*Torymus* 1826  
 tree fruits, Tortricidae 6626  
 trees, *Otiorynchus sulcatus* 10934  
*Trifolium pratense*, insect pests, parasitoids 4462  
 urban areas, Carabidae 1063  
 vineyards  
   predatory insects 4577  
   predatory mites 8774  
 water  
   insecticide residues 5361  
   pesticide residues 7620  
   legislation 11660  
 wheat  
   Aphididae 7657, 11722  
   predators 8631-8632  
   *Delia coarctata* 1430, 6438  
   fields  
     beneficial insects 2130, 9675  
     Carabidae 7658  
     insects 1428  
     predatory arthropods 1224  
     predatory insects 7657, 7663  
     insect pests 2324, 8638  
     *Sitobion avenae* 1429, 5411, 7661  
   wildlife, pesticides, poisoning 7604  
   *Zygaena trifolii* 950  
**Gerris nitida**  
   rice  
     damage 9732  
     Orissa 9732  
**Gesonula punctifrons**, morphology, eggs 10133  
**Ghana**  
*Anagyrus mangicola* 5164  
*Chromolaena odorata*, biological control 11028  
 cocoa, insects 4645  
*Gyransoidea tebygi* 5164  
 habitats, Formicidae 11960  
**Gherkins** (see Cucumbers)  
**Gibberella**, toxicity, *Galleria mellonella* 2200  
**Gibberella avenaeae**  
   *Cryptolestes ferrugineus*, effects 8997  
   effects, *Hippodamia convergens* 9316  
**Gibberella fujikuroi**  
   insecticides, effects 6376  
   vectors  
     *Blastophaga psenes* 6698  
     *Crioceris* 10814  
**Gibberella fujikuroi** var. *subglutinans*, vectors, *Aceria mangiferae* 2582  
**Gibberella pulicaris**, hosts, *Lymantria dispar* 2183  
**Gibberifera simplicata glaciat**  
   control, chemical control 6759  
*Populus ciliata*  
   damage 6759  
   Himachal Pradesh 6759  
**Gigantochloa scortechinii**  
   habitats, *Carvalhofulvius gigantochloae*, Malaysia 11126  
   insect pests, Malaysia 5630  
**Gigantothrips himalayanus**  
   *Ficus*, Uttar Pradesh 1814  
   taxonomy, new species 1814  
*Gila elegans*, insecticides, toxicity 1340



- Gilpinia frutetorum***, biology, development 953
- Gilpinia hercyniae***  
biochemistry, secretions 972  
pathogens 8860
- Gilpinia pallida***  
*Pinus*  
damage 6785  
Finland 6785  
*Pinus sylvestris*  
damage 2698  
Finland 2698
- Ginger**  
extracts  
effects, *Callosobruchus maculatus* 9003  
repellents, *Sitophilus zeamais* 10054
- Ginger plants** (see *Zingiber officinale*)
- Ginkgo biloba***  
*Etiella zinckenella*, Shandong 11975  
*Metabolus flavescens*  
China 8857  
damage 8857
- Giraudiella inclusa***  
parasitoids 1753  
*Phragmites australis*  
galls 1753  
Germany 1753
- Gütona***  
control, trapping 11553  
crops, Tamil Nadu 11553  
ecology, population dynamics 2542  
*Moringa oleifera*  
damage 2542  
Tamil Nadu 2542
- Gütona brasiliensis***  
hosts, *Orthezia olivicola* 9918  
olives, orchards, Chile 9918
- Glabromicroplitis croceipes***  
biology 6196  
behaviour 3041  
genetics, mutants 8238  
hosts  
*Helicoverpa zea* 3041  
*Heliothis* 11421  
*Heliothis virescens* 86, 7337, 10587  
Noctuidae 4773, 6196  
insecticides, toxicity 10587  
pathogens 5221, 7337  
physiology, giant cells 86
- Gladidolus, Thrips fallaciosus*** 919
- Glareidae**, evolution 927
- Glass**, insecticides, degradation 9404
- Glaucias subpunctatus***  
biology, development 11149  
morphology 11149
- Glaucopsyche lygdamus***  
biology, behaviour 220  
Colorado 220, 3922  
ecology, population dynamics 3922
- Gleditsia triacanthos, Aphis craccivora***, Argentina 3631
- Glena***  
control, chemical control 4695  
*Eucalyptus*, Brazil 1660  
*Eucalyptus urophylla*  
Minas Gerais 4694  
Para 4695
- Gliocladium virens***, insecticides, degradation 4241
- Gliricidia sepium***  
extracts  
insecticidal properties 8958  
toxicity, *Tribolium castaneum* 8958  
*Ferrisia virgata*, Nigeria 8848
- Glischrochilus quadrisignatus***  
biology 11733  
control 11733  
ecology, population dynamics 4030  
Illinois 4030  
maize, Italy 11733  
monitoring, traps 11733
- Globe artichokes** (*Cynara scolymus*)  
*Aphis fabae* group, France 1512
- Glochidion puberum***  
habitats, *Polyrhachis vicina*, Zhejiang 6787  
*Lachnus tropicalis*, Zhejiang 6787  
*Gloeocapsa*, insecticides, effects 4323  
*Gloeophyllum trabeum*, effects, *Coptotermes formosanus* 11463
- Glomerida**, habitats, Czech Republic 7251
- Glomeris marginata***  
ecology, seasonal abundance 10943  
*Quercus ilex*, forests, France 10943
- Glomus clarum***, insecticides, effects 5356
- Glossista*** (see *Cytherea*)
- (2R)-Glucobarbarin**, effects, *Pieris* 4507
- (2S)-Glucobarbarin**, effects, *Pieris* 4507
- Glucobrassicin**, effects, *Pieris* 4507
- Glucose**, mixtures, effects, *Choristoneura occidentalis* 4746
- $\beta$ -Glucosidase**, attractants, *Cotesia glomerata* 11810
- Glucosinolates**  
effects  
*Mamestra configurata* 7772  
*Pieris* 1304, 4507  
*Psylliodes chrysocephala* 4620
- Glufosinate**, effects, *Spodoptera littoralis* 2259
- Glycine javoni***, habitats, *Stylogecoris maculatus*, Queensland 3752
- Glycine max*** (see Soyabeans)
- Glycyphagus destructor*** (see *Lepidoglyphus destructor*)
- Glycyphagus domesticus***, wheat, commodities, Italy 6879
- Glycyrrhiza uralensis***, *Porphyrophora nixiana* 6820
- Glyphipteryx**  
*Hyptis urticoides*  
Costa Rica 10022  
galls 10022
- Glyphosate**  
effects  
forests, insects 10933  
Gastropoda 10403  
*Spodoptera littoralis* 2259  
toxicity, *Metarhizium anisopliae* 2307
- Glyptapanteles compressiventris***  
hosts, *Ocnogyna baetica* 330  
Spain 330
- Glyptapanteles liparidis***, hosts, *Lymantria dispar* 1080, 7093
- Glyptapanteles maculitarsis***, taxonomy, from *Apanteles* 3751
- Glyptapanteles pallipes***, hosts, *Autographa nigrisigna* 9426
- Gnamptogenys striatula***  
cocoa, litter (plant), Sao Paulo 1624  
ecology, habitats 1624
- Gnaphosidae**  
ecology, population dynamics 11929  
monitoring, traps 11929  
olives, orchards, Italy 11929
- Gnathonarium dentatum***  
ecology, habitats 3452  
rice, fields, China 3452
- Gnathonarium gibberum***  
ecology, habitats 3452  
rice, fields, China 3452
- Gnathopogon caeruleus***, pesticides, effects 1352
- Gnathotrichus retusus***  
biology, behaviour 7962, 8994  
*Pseudotsuga menziesii*  
Oregon 7962, 8994  
wood 8994
- Gnathotrichus sulcatus***  
control, trapping 6778  
Pinopsida, British Columbia 6778
- Gnatocerus cornutus***, cereal grains, South Carolina 4809
- Gnatocerus maxillosus***, cereal grains, South Carolina 4809
- Goats**, insecticides, residues 11653
- Godasa sidae***  
biology, behaviour 10929  
*Mansonia altissima*, Cameroon 10929
- Golf courses**  
*Blitiopertha orientalis*, Connecticut 6815  
pesticides, residues 6386, 7612  
Scarabaeidae, Honshu 12034
- Golofa eacus***  
Colombia 2875  
morphology 2875
- Golofa porteri***  
Colombia 2875  
morphology 2875
- Gomphocerippus rufus***, physiology, endocrine system 115
- Gomphocerus rufus*** (see *Gomphocerippus rufus*)
- Gomphocerus sibiricus***  
alpine grasslands, Austria 9739  
control, integrated control 276  
ecology, habitats 9739  
genetics, cytogenetics 1185  
Siberia 1185  
Xinjiang 276
- Gonadotropins**, effects, *Locusta migratoria* 408
- Gonatocerus***  
control, insect pests, rice 9724  
rice, fields, Colombia 9724  
taxonomy 11092
- Goniagnathus brevis***  
*Citrus*, Turkey 1566  
taxonomy 1566
- Gonimbrasia belina***  
ecology, fires 7931  
trees, Malawi 7931
- Gonioctena fornicata***  
insecticides 2480  
lucerne 2480
- Gonioctena japonica***, biology, behaviour 9313
- Gonioctena occidentalis***  
ecology 7921  
*Salix*, Alaska 7921
- Gonioctena pallida***  
*Salix phylicifolia*, Russia 1659  
sampling 1659
- Gonioctenus***, taxonomy 8061
- Goniozus**  
hosts  
*Anarsia achrasella* 7857  
*Eudemioptis archimedis* 1718  
sapidillas, habitats, India 7857
- Goniozus indicus***  
biology, behaviour 7216  
*Eldana saccharina*, interactions 2609  
hosts  
*Eldana saccharina* 7216  
*Maliarpha separatella* 1212  
rice, habitats, Africa 1212  
taxonomy  
synonyms  
*Goniozus natalensis* 1212  
*Goniozus proceras* 1212
- Goniozus legneri***, control, *Amyelois transitella*, almonds 6700
- Goniozus microstigma***  
hosts, *Microstigma* 10  
taxonomy, new species 10
- Goniozus natalensis*** (see *G. indicus*)  
taxonomy, synonyms, of *Goniozus indicus* 1212
- Goniozus niphantidis***  
biology 11927  
development 9384  
sex ratio 11441  
control, *Opisina arenosella*, coconuts 11927  
hosts  
*Corcyra cephalonica* 11441, 11927  
*Opisina arenosella* 9384
- Goniozus proceras***  
hosts, *Maliarpha separatella* 1212  
rice, habitats, Africa 1212  
taxonomy, synonyms, of *Goniozus indicus* 1212
- Goniozus stomopterycis***  
groundnuts, fields, Maharashtra 11938  
hosts, *Aproaerema modicella* 11938
- Gonocephalum***, groundnuts, Gujarat 11940
- Gonocephalum ficifolium***  
*Ficus*, Honshu 12032  
taxonomy, new species 12032
- Gonocephalum macleyi***  
control  
chemical control 5396  
integrated control 5396  
ecology, population dynamics 5396  
field crops, Queensland 5396  
pathogens 5396
- Gonolabis electa***, predators 5135
- Gooseberries** (*Ribes uva-crispa*)  
arthropod pests, certification 10862  
*Cecidophyopsis* 5534
- Gossyparia spuria***  
parasitoids 2671



**Gossyparia spuria** cont.*Ulmus*, California 2671**Gossypium** (see Cotton)**Gossypium barbadense**, *Helicoverpa armigera* 7638**Gossypium thurberi***Bucculatrix thurberiella*  
damage 2741-2742

Florida 2741-2742

**Gossypure**attractants, *Pectinophora gossypiella*  
1627

control

Lepidoptera, cotton 4655

*Pectinophora gossypiella*, cotton 3619mixtures, control, *Pectinophora gossypiella*, cotton 3622**Gourds**, insecticides, residues 10813**Gracillariidae***Eucalyptus cloeziana*  
damage 7913

Minas Gerais 7913

**Graeffea crouanii**

biology, environmental factors 10899

coconuts, Tonga 10899

natural enemies 10899

**Graellsia isabellae**

biology 763

endangered species 763

*Pinus sylvestris* 763**Grafting**, control, insect pests, fruit vegetables 11822**Grain**

commodities (see Cereal grains)

insecticides, residues 11396

**Grain legumes**

commodities

*Callosobruchus chinensis* 9000

fumigants, residues 5752

insect pests, control, chemical control  
5752

pest control, Tamil Nadu 5752

pesticides, residues 7572

**Grain stores**, insect pests, Egypt 1768**Gram** (see Chickpeas)**Gramineae** (see Poaceae)**Graminella nigrifrons**

biology, behaviour 11728

maize 7684, 11728

pathogens 4168

plant pathogens, transmission 4168,  
7684, 10721

Poaceae, Virginia 10721

**Graminella sonora** (see *Amplicephalus sonorus*)**Gramoxone** (see Paraquat)**Granadillas**, *Nezara viridula* 1583**Granaries** (see Grain stores)**Grand fir** (see *Abies grandis*)**Grandidirella japonica**, insecticides, effects  
3377**Granulosis viruses**

biochemistry, proteins 4155, 7439

biology, environmental factors 4186

control

*Agrotis segetum*, field crops 6457*Cydia nigricana* 9526*Cydia pomonella*, apples 8756*Manduca sexta*, evaluation 2175*Pieris rapae*, cabbages 7776

genetics

genomes 7431

molecular genetics 4171

hosts

*Adoxophyes orana* 7438, 7440*Cydia pomonella* 9526

insect pests 3260

*Manduca sexta* 2175*Mythimna separata* 5208*Mythimna unipuncta* 4148, 9498*Ocnogyna baetica* 4146*Phthorimaea operculella* 7441*Pieris rapae* 7776*Plodia interpunctella* 246, 4138, 4205*Spodoptera littoralis* 10444

nontarget effects, Carabidae 11851

surveys 7441

**Grapefruits** (*Citrus paradisi*)*Aonidiella aurantii*, California 8788

commodities

*Anastrepha ludens* 8024**Grapefruits** cont.

commodities cont.

*Anastrepha suspensa*

Florida 1779

resistance 1779

*Eutetranychus orientalis*

Rajasthan 9883

varietal susceptibility 9883

orchards, Hymenoptera, California 8788

*Parlatoria*, Israel 7221*Phyllocnistis citrella*, Florida 10879pollen, *Euseius mesembrinus* 3220*Romalea guttata* 2921**Grapes** (*Vitis* spp.)*Acalolepta mixta*, New South Wales  
11872-11873*Anomala*, Hungary 4546*Aoraia scutellaris*, Sichuan 9861*Aphis illinoisensis* 6668

arthropod pests

Chile 8776

France 1557

Germany 6667

Australia, books 9038

*Calepitrimerus vitis* 9872

Hungary 7837

*Calosoma sycophanta* 2125*Ceratitis*, South Africa 2568*Ceratitis capitata*, Greece 977*Chlorophorus varius*, Sweden 10302

Cicadellidae 7838

*Cryptoblabes gnidiella*, Israel 6669*Empoasca vitis*

economic thresholds 11882

Italy 6666, 11882, 11885

Eriophyidae, Spain 9869

*Erythroneura variabilis*, California 11879*Eupoecilia ambigua*, Germany 4577,  
5540*Eurhizococcus brasiliensis*, Brazil 4203flavescence doree, vectors, *Scaphoideus**titanus* 658, 2573, 9879

habitats

*Anthoseius caudigians*, California

11875

beneficial insects, New Zealand 640

predators 5541

*Typhlodromus pyri*, Germany 6667*Hyalesthes obsoletus*, Germany 3547

insect pests

California 9878

monitoring, traps 1294

resistance 9878

integrated pest management, Italy 641

Lepidoptera, Spain 6996

*Lobesia botrana*

damage 10866

Egypt 11876

Europe 10866

France 4575, 10867

Germany 2575, 11877

Israel 2574, 3546

Italy 2570-2571, 9875

Spain 7898, 9870-9871

Switzerland 11878

*Metacalfa pruinosa*, Italy 11843, 11854

mites, Australian Capital Territory 9868

Nitidulidae, Italy 11845

pest control

Australia 9038

Japan 11874

Washington 3545

pesticides

detection 9393

residues 11884

*Polyphagotarsonemus latus*, Rio Grande

do Sul 4580

*Pseudococcus*, New Zealand 640*Pseudococcus affinis* 9873*Scaphoideus titanus* 9879

France 2573

Italy 658, 10868

*Scelodonta strigicollis*, resistance 6665

Tephritidae, South Africa 11883

Tetranychidae

California 11880

resistance 11880

*Tetranychus kanzawai* 5541*Tetranychus mcDanieli*, France 1558*Tetranychus urticae*

Sao Paulo 4579

**Grapes** cont.*Tetranychus urticae* cont.

Ukraine 6670

Thripidae

Chile 9867

damage 9867

Tortricidae

Australasia 10869

damage 9876

Italy 2569, 9876

Switzerland 9862

Vitaceae polistiformis

damage 4578

Georgia 9866

Mississippi 4578

USA 5542

*Viteus vitifoliae*

California 11881

Germany 9864

resistance 2572, 9865, 9877

Switzerland 4576

varietal susceptibility 9864

**Grapes (dried fruit)** (see Raisins)**Grapevine leafroll associated closterovirus**,  
vectors, *Pseudococcus longispinus* 5539**Grapevine stem pitting associated closterovirus**, vectors, *Pseudococcus longispinus* 5539**Grapevine trichovirus A**, vectors,*Pseudococcus affinis* 9873**Grapevine trichovirus B**, vectors,*Pseudococcus affinis* 9873**Graphania**, biochemistry, pheromones 402**Graphania bromias**, pheromones 402**Graphania insignis**, pheromones 402**Graphania mutans**, pheromones 402**Graphania plena**, pheromones 402**Graphania ustistriga**, pheromones 402**Graphium pseudormiticum**, hosts,*Orthotomicus erosus* 4153**Graphocephala atropunctata**

grapes 7838

plant pathogens, transmission 7838

**Graphognathus**, pathogens 7478**Graphognathus leucoloma**

biology, phenology 6510

control, chemical control 9779

pastures, New Zealand 6510

potatoes, Western Australia 9779

**Grapholita molesta** (see *Cydia molesta*)**Grapholita packardii** (see *Cydia packardii*)**Grapholita prunivora** (see *Cydia prunivora*)**Grapholitha janthinana** (see *Cydia**janthinana*)**Grapholitha lobarzewskii** (see *Cydia**lobarzewskii*)**Grasses** (see also Poaceae)

Cercopidae 4022

*Chorthippus dubius*

economic thresholds 8675

Nei Menggu 8675

yield losses 8675

Cicadellidae, North America 8088

control, biological control 11027

*Diuraphis noxia* 9743

Eurytomidae, UK 3743

habitats

insects, Delhi 4101

predatory mites, Massachusetts 648

*Haematoloma dorsatum*, Italy 9665

herbivores

damage 5451

UK 5451

*Idiocerus*, Heilongjiang 10098

insect pests

control, biological control 11068

damage 6503

*Laelia coenosa*

damage 8674

Hunan 8674

*Messor barbarus*, Spain 1465*Omocestus viridulus* 407*Oscinella*, Denmark 5452

pesticides, residues 578

*Phaetolites nebrascensis* 2473*Thrips pseudoflavus* 919*Tydeus caputoperio*, Sweden 8057**Grasshoppers** (see Orthoptera)**Grasslands**

Acrididae, Montana 581, 3479

*Amphimallon solstitialis*, Germany 2187



**Grasslands cont.**

- arthropods
  - Germany 1126
  - South Dakota 9742
- Auchenorrhyncha, UK 3029
- Carabidae
  - Germany 1127, 1228
  - UK 5453
- Diptera, UK 3935
- Formica exsectoides*, West Virginia 580
- Gastropoda
  - Germany 1243
  - UK 8669
- Gynaephora menyanthis* 11296

**habitats**

- Araneae, Utah 5048
- Carabidae, UK 5074
- parasitoids, UK 3935

**herbivores**

- damage 5451
- UK 5451

**insect pests, China 8673****insects**

- ecology, community ecology 9737
- Germany 3174
- Nebraska 2020
- South Africa 8671

**invertebrates, conservation 579****Isopoda, UK 1089****Lepidoptera, UK 6081****Linyphiidae, UK 7336****locusts, China 7315*****Metrioptera bicolor*, Sweden 10748*****Opeia obscura*, Colorado 3941****Orthoptera, Arizona 5261*****Pallasiola absinthii*, Gansu 3481****pest control, Netherlands 1283****pesticides, effects 483****pests**

- Europe 6504
- reviews 5444, 5701

**Phyllobius****damage 11760****Sweden 11760*****Pogonomyrmex occidentalis*, Colorado 2086****predatory arthropods, Poland 536****Scarabaeoidea, Spain 6023****Thysanoptera, Poland 8672****Tipulidae, Netherlands 2472*****Gratiana spadiacea*, control, *Solanum sisymbriifolium* 11029****Grazing**

- effects, Gastropoda 1243
- pastures, arthropods, interactions 11756

**Great Britain, Laboulbeniales 1251****Greece****almonds, *Eurytoma amygdali* 11914*****Amaurobius* 11096****Aphididae 8324****apricots, acaricide residues 8563, 11862*****Arum*, insects 3673*****Bacillus atticus* 5010*****Buxus sempervirens*, *Typhlodromus olympicus* 4858*****Centaurea*, *Bangasternus orientalis* 826*****Centaurea solstitialis*, *Larinus curtus* 8977*****Citrus*, *Ceratitidis capitata*, predators 4386, 7849****Coleoptera 9015****Collembola 3128****crops, Acari 8623*****Drosophila melanogaster* 11277****environment, pesticide residues 11664****fruits, *Ceratitidis capitata* 977****groundwater, pesticide residues 4069*****Malachius* 8357****Meloidae 9364****milk, insecticide residues 6863****olives*****Bactrocera oleae* 6710*****Calocoris trivialis* 1603****commodities, insecticide residues 12078****oranges, *Ceratitidis capitata* 11893****pears, *Cacopsylla pyri* 10855****Phytoseiidae 4858****pistachios, *Teleiodes decorella* 8800****potatoes, insect pests 8711*****Quercus*, *Typhlodromus rodopiensis* 5643****Greece cont.*****Quercus coccifera*, litter, arthropods 3641****rivers, pesticide residues 3403*****Spartium junceum*, *Typhlodromus******kykladiticus* 4858****Symphyta 911*****Tetranychus urticae* 4005*****Thaumetopoea pyrocampa* 2872*****Theba pisana* 1132****tobacco*****Epitrix hirtipennis* 6730*****Myzus persicae*, natural enemies 8826****tomatoes, pesticide residues 1522****vegetables, insect pests, predators 2526****water, insecticide residues 11661****Green gram (see *Vigna radiata*)****Green manures****effects****Carabidae 7644****Collembola 9286****Greengages (see Plums)****Greenhouse crops****Aleyrodidae, Mediterranean Region****11447****Aphididae, Italy 2538*****Aphis gossypii*, Germany 10832****arthropod pests****control, biological control 1281****Germany 10990****Poland 1281, 1514*****Bemisia argentifolii*, California 10794*****Bemisia tabaci* 7974****Italy 12033****Netherlands 4759****biological control, Poland 1280*****Bradysia*, UK 793****Diaspididae, Hungary 7978*****Frankliniella occidentalis* 9825****Czech Republic 6807****Europe 7167****Italy 8745****UK 625****insect pests 1061****California 8450****control****biological control 2532****chemical control 7603****integrated control 6600****Poland 1299****Sardinia 2532****South Africa 9538****insects, Ontario 11541****integrated pest management 1524*****Liriomyza bryoniae*, Russia 11828*****Liriomyza huidobrensis*, Israel 8621*****Orius*, Canada 2537****pest control 12098****equipment 1273****North Carolina 12021-12022****Poland 1286*****Tetranychus urticae*****damage 1515****New York 10980, 12024****Poland 1515****Thripidae, Czech Republic 1411****Thrips, New Zealand 6613*****Thrips palmi*, Japan 7796****Thysanoptera, Georgia 787*****Trialeurodes vaporariorum* 2240, 4219****damage 11823****France 1518, 8378****Italy 11826****Uzbekistan 11823****Greenhouses****arthropods, France 8378****habitats****Miridae, Mediterranean Region 11447*****Nabis punctatus*, Italy 9444****insect pests, USA 3737****pesticides, residues 3406****Greenidea ficicola****guavas, Uttar Pradesh 10886****hosts, *Archaphidius greenideae* 10886****Greenideinae****Brazil 2865****Java 9096****taxonomy 2865, 9096****Greenland, fishes, pesticide residues 2334****Gregarina, hosts, *Ips typographus* 7957****Gregarina alphitobii, hosts, *Alphitobius******diaperinus* 2158*****Grifola frondosa*, *Oxyporus stygicus* 1738****Grigiotermes****ecology, population dynamics 3476****rice, Goias 3476****Gronotoma, distribution, Indonesia 10101****Gronotoma adachiae****distribution, Indonesia 10101****hosts, *Melanagromyza sojae* 10101****Gronotoma hiranoi****hosts, *Melanagromyza sojae* 10101****Indonesia 10101****taxonomy, new species 10101****Ground cover plants****habitats****beneficial arthropods, Guangdong 668****predatory mites, Massachusetts 648****Groundnut oil****control, *Sitophilus granarius*, wheat,****commodities 6896****effects*****Callosobruchus chinensis* 1765*****Metarhizium flavoviride* 10446****Groundnut rosette virus, vectors, *Aphis******craccivora* 6713****Groundnuts (*Arachis hypogaea*)****Acrididae, Tamil Nadu 6143*****Acronicta rumicis*, Jiangsu 7635*****Amsacta albistriga*, Tamil Nadu 5580*****Anarsia ephippias*, resistance 689*****Aphis craccivora*, Karnataka 690*****Aproaerema modicella*****Andhra Pradesh 8811****India 5391****Maharashtra 11938****Tamil Nadu 3585, 11935****arthropod pests 1791****Africa 6713****damage 6713*****Balclutha hortiensis*, resistance 7872*****Bemisia argentifolii*****Florida 10901****resistance 10901*****Bemisia tabaci*****Florida 4631****resistance 4631****books 1791*****Caliothrips indicus* 5582, 11941****Tamil Nadu 7873****commodities*****Caryedon serratus* 6870****insect pests, Georgia 2780*****Lasioderma serricorne* 9005*****Oryzaephilus mercator* 2770*****Plodia interpunctella*, USA 9613****Pyralidae 11042*****Tyrophagus putrescentiae* 852*****Cosmopolites sordidus*, Cameroon 6676*****Diabolocatanops pinguis* 11188*****Elasmolomus sordidus* 8615*****Elasmopalpus lignosellus*, Alabama 686*****Euproctis scintillans* 1589****extracts, attractants, *Sitophilus zeamais*****10054****fields****Aphelinidae, Florida 4631****beneficial insects, South Africa 8810****Hymenoptera, Maharashtra 11938****habitats, *Bracon hebetor*, USA 9613*****Holotrichia*, Rajasthan 685****insect pests 873****damage 4632-4633****Delhi 9769, 11936-11937****Maharashtra 3584****Meghalaya 5263****plant pathogens, transmission 10067****resistance 688, 1606****South Africa 4632-4633, 6714, 7871****Tamil Nadu 11939****insecticides, effects 5356****insects, Delhi 9770****integrated pest management, Andhra****Pradesh 2599****intercropping, effects, insect pests 5263****Isoptera****damage 10387****Sudan 10387****Lepidoptera, South Carolina 6715*****Leucopholis lepidophora*, Maharashtra****3015*****Maladera matrida*****damage 4634**



**Groundnuts cont.***Maladera matrida* cont.

Israel 687, 4634, 10900

Noctuidae 4630

pest control 858

Australia 9043

books 9043

China 9919

Maharashtra 6712, 8809

reports 2794-2796

pests, resistance 9919

Scarabaeidae

China 11934

damage 4629

*Spodoptera exigua* 7636*Spodoptera litura* 9908

Andhra Pradesh 5581

resistance 5581

Tamil Nadu 2404

Uttar Pradesh 1605, 6406

Tenebrionidae, Gujarat 11940

*Tetranychus urticae* 5394

Thripidae

resistance 587

Rwanda 587

viruses, vectors, *Aphis craccivora* 690

weeds, control, biological control 2756

**Groundwater**

insecticides

determination 4069

residues 2356, 2369, 2379, 4343,

6385, 6387, 8583, 10652,

10667, 12096-12097

pesticides

determination 4067

residues 505, 7620, 9638, 9640, 9647

analysis 10644

books 6931

extraction 10644

leaching 3405

**Growth regulators**

control, insect pests, tea 2615

effects

*Chilo suppressalis* 10670

insect pests 3410

insects 11652

resistance, *Bemisia tabaci* 4263**Gryllidae**

Nicaragua 10319

physiology, wings 10118

**Grylloblattodea**

morphology 2873

phylogeny 2873

**Grylloides sigillatus**

biology

behaviour 8258, 9300

reproduction 3053-3054

pathogens 2202

**Gryllotalpa africana**

biology, behaviour 7180

genetics, chromosomes 170

Korea Republic 7180

**Gryllotalpa gryllotalpa**

Algeria 275

control, chemical control 8711

potatoes, Greece 8711

predators 275

**Gryllotalpidae, Nicaragua 10319****Gryllus**

North America 9111

predators 6158

taxonomy, phylogeny 9111

**Gryllus bimaculatus**

biochemistry

development 2885

endocrine system 3852-3853

biology, behaviour 222, 3953

morphology, stridulation 3791

parasitoids 6165

physiology

circadian rhythm 2899

endocrine system 115, 278, 1906,

5930, 8167, 11216

haemolymph 11219

hormones 138

muscles 8147

nervous system 981, 985, 7023, 7073,

8148, 8151

sense organs 125

sound production 990

**Gryllus campestris**

physiology

hormones 138

nervous system 985

**Gryllus firmus**

biology

development 11171

reproduction 10147

genetics, genetic correlation 7113

physiology

dimorphism 9148

flight 2913

resource allocation 3822

*Gryllus integer*, parasitoids 6165*Gryllus pennsylvanicus*

biology

behaviour 3036, 9307

reproduction 10147

North America 9111

Ontario 3036

Quebec 10147

taxonomy, phylogeny 9111

**Gryllus rubens**

parasitoids 6165

physiology, dimorphism 9148

**Gryllus veletis**

biology

behaviour 8258

reproduction 10147

North America 9111

taxonomy, phylogeny 9111

**Gryon**hosts, *Amblypelta lutescens* 790*Murraya paniculata*, habitats, Queensland

790

**Gryon japonicum**

biology, behaviour 8295

ecology, interspecific competition 8295

hosts, *Riptortus clavatus* 8295**Gryon nigricorne**

biology, behaviour 8295

ecology, interspecific competition 8295

hosts, *Riptortus clavatus* 8295**Gryon pennsylvanicus**

biology 11422

behaviour 7800

hosts

*Anasa tristis* 11422*Leptoglossus australis* 7800*Momordica charantia*, habitats, Japan

7800

monitoring, traps 7800

**Guadeloupe***Citrus*, *Toxoptera citricidus* 4591maize, *Spodoptera frugiperda* 4428**Guaiacol**, mixtures, effects, *Schistocerca**gregaria* 9179**Guaiacum officinale**, extracts, molluscicidal

properties 1721

**Guaiacum sanctum**, *Toumeyella lignumvi-*

tae, Florida 11

**Guam**, melons, *Aulacophora indica* 1582**Guar** (*Cyamopsis tetragonoloba*)*Amsacta moorei*, Rajasthan 9772**Guatemala***Anastrepha striata* 1250

broccoli, pest control 11812

*Ceratitis capitata* 1295, 6285*Cyclocephala* 11097

insecticides, safety 423

*Metamasius callizona* 5385

Tephritidae 4366

tomatoes, *Bemisia tabaci* 8742**Guavas** (*Psidium guajava*)*Anastrepha fraterculus*, Rio Grande do

Sul 4598

*Anastrepha suspensa* 5547*Bactrocera* 6945*Bactrocera carayae* 9882*Bactrocera dorsalis*

Andaman and Nicobar Islands 11887

Hawaii 5565, 8795

*Bactrocera occipitalis*, South East Asia

9893

*Bactrocera pyrifoliae*, Thailand 9898*Deudorix isocrates*

resistance 11913

Uttar Pradesh 11913

*Euscelus spiniger*, Peru 9902*Greenidea ficicola*, Uttar Pradesh 10886

insect pests, Bangladesh 5393

**Guavas cont.**

insecticides, residues 2323

orchards

*Archaphidius greenideae*, Uttar

Pradesh 10886

Hymenoptera, Hawaii 8795

*Oxyops vitiosa* 8981

Tephritidae

Costa Rica 5548

Goias 7840

**Guinea**, Sphingidae 7276**Guinea corn** (see *Sorghum*)**Guinea pigs**

entomogenous fungi, effects 8433

entomopathogens, effects 8555

insecticides, toxicity 469

**Gunnera tinctoria**, *Eupithecia horismoides*,

Chile 5690

**Guolina**, taxonomy, new genus 1815**Guolina fulgida**, taxonomy, new species

1815

**Guolina insularum**, taxonomy, new species

1815

**Guolina psenophaga**, taxonomy, new spe-

cies 1815

**Gustavia angustifolia**, *Carmenta**forasemini*, Panama 8081**Gustavia superba**, *Carmenta forasemini*,

Panama 8081, 8859

**Guthion** (see Azinphos-methyl)**Gutierrezia**, natural enemies, Argentina 5716**Guyana***Bactrocera carambolae* 9897*Bactrocera dorsalis* 11385**Gymnoclytia**hosts, *Oebalus ornatus* 9726

rice, fields, Colombia 9726

**Gymnoclytia paulista**hosts, *Oebalus ypsilon* 4439

rice, fields, Rio Grande do Sul 4439

**Gynaephora groenlandica**

biology, behaviour 11302

food plants, Canada 11302

**Gynaephora menyuanensis**

biology, growth 11296

grasslands 11296

**Gynaephora qinghaiensis**, parasitoids 10379**Gynaephora qumalaiensis**, parasitoids 10379**Gynaikothrips ficorum**, greenhouse crops,

Czech Republic 1411

**Gynanisa maia** (see *G. maja*)**Gynanisa maja**

ecology, fires 7931

trees, Malawi 7931

**Gynostemma pentaphyllum**, *Epilachna**admirabilis*, Honshu 1744**Gypsophila paniculata**, insect pests, Europe

1707

**Gyranoidea advena**

fruits, habitats, New Zealand 640

morphology 640

**Gyranoidea tebygi**control, *Rastrococcus invadens*, mangoes

10884

distribution, Africa 5164

hosts, *Rastrococcus invadens* 5164,

10884

mangoes, orchards, Benin 10884

**Gyrinophagus aper**, hosts, *Sisyrta fuscata*

3931

**Gyropsylla spegazziniana**

pathogens 5594

tea, Argentina 5594

**Habrobracon hebetor** (see *Bracon hebetor*)**Habrolepis dalmanni**

morphology 4872

taxonomy 4872

**Hadrobregmus**, taxonomy 11101**Hadrobregmus denticollis**

predators 8875

*Quercus robur*, Netherlands 8875**Hadrodobregmus gibbicollis**, wood, USA

11041

**Hadrotettix trifasciatus**, biology, behaviour

5043

**Haeckeliana**, distribution, Neotropical

Region 4838

**Haeckeliana minuta**

Brazil 4838

taxonomy, new species 4838



- Haematoloma dorsatum**  
biology, behaviour 9665  
ecology, population dynamics 9665  
food plants, Italy 9665  
predators 9665
- Haemulon plumieri**, insecticides, residues 11673
- Hafnia alvei**, hosts, *Plutella xylostella* 996
- Hagenomyia micans**, biology, behaviour 6060
- Hahnliidae**, checklists, Uruguay 8321
- Haiti**, *Citrus*, *Toxoptera citricidus* 4591
- Halfenprox**, legislation, nomenclature 428
- Haliaeetus leucogaster**, insecticides, residues 4311
- Haliaspis**, taxonomy 2
- Halichoerus grypus**  
insecticides, residues 459  
organochlorine compounds, residues 1342  
pesticides, effects 3373
- Halictophagidae**, taxonomy 1829
- Halictoxenos**, distribution, Afrotropical Region 10083
- Halictoxenos knerei**  
hosts, *Halictus* 10083  
South Africa 10083  
taxonomy, new species 10083
- Halictus jucundus**  
parasitoids 10083  
South Africa 10083
- Halictus virescens var. africanus**  
parasitoids 10083  
South Africa 10083
- Halotydeus**  
Australia 11405  
biology 11405
- Halotydeus destructor**  
acaricides, effects 3332  
biology  
behaviour 11763  
reproduction 3487  
control  
biological control 11754-11755  
chemical control 11706  
cultural control 11757  
crops, Australia 11706  
fodder plants, Victoria 11757  
food plants  
damage 11704  
varietal reactions 11704
- Medicago**  
Australia 11764  
varietal reactions 11764  
pastures  
Australia 11706  
economics of control 11758  
models 11758  
New South Wales 11755  
Western Australia 11756, 11758  
yield losses 11756  
Poaceae 3487  
predators 11754  
*Trifolium subterraneum*  
varietal reactions 11763  
Western Australia 11763
- Halozetes belgicae**  
Antarctica 141  
biochemistry, lipids 141  
lipids, determination 141
- Halticoptera**  
hosts, *Liriomyza trifolii* 298  
Taiwan 298
- Halticoptera circulus**, hosts, Diptera 6505
- Halyomorpha mista**  
biology, migration 6039  
insecticides, toxicity 8492  
Japan 6039, 8492
- Halyomorpha picus**  
India 4828  
morphology 4828  
Pakistan 4828  
taxonomy 4828
- Handbooks**, Baculoviridae, culture techniques 8038
- Hanseniella unguiculata**  
pathogens 6228  
Reunion 6228
- Haplidia akbesiana** (see *H. pilicollis akbesiana*)
- Haplidia pilicollis akbesiana**  
*Haplidia transversa*, misidentification 1833  
Spain 1833  
taxonomy 1833
- Haplidia transversa**  
*Haplidia pilicollis akbesiana*, misidentification 1833  
Spain 1833  
taxonomy 1833
- Haplodiplosis equestris** (see *H. marginata*)
- Haplodiplosis marginata**  
biology 2412  
fungicides, effects 2324  
wheat  
Germany 2324  
Italy 2412
- Haplothrips aculeatus**  
grasslands, Poland 8672  
pollutants, effects 3421  
rye, Poland 3421
- Haplothrips ganglbaueri**, rice, Philippines 11743
- Haplothrips tenuipennis**  
ecology, population dynamics 9860  
mangoes, Andhra Pradesh 4596  
mulberries, West Bengal 9860
- Haplothrips tritici**  
control, chemical control 11724  
wheat, Ukraine 11724
- Haptoncus luteolus**  
*Annona*  
Florida 4601  
pollination 4601  
dates, California 6674  
distribution, Italy 11845  
food plants, Italy 11845  
monitoring, traps 11845  
pheromones 6674
- Harmandia**  
biology, morphology 5653  
taxonomy 5653
- Harmandia amisae**  
biology, behaviour 5653  
*Castanea pumila*  
galls 5653  
North America 5653  
taxonomy, new species 5653
- Harmandia castaneae**, taxonomy, from *Cecidomyia* 5653
- Harmandia hudsoni**, taxonomy, synonyms, of *Harmandia reflexa* 5653
- Harmandia reflexa**, taxonomy, synonyms, *Harmandia hudsoni* 5653
- Harmonia axyridis**  
biology  
behaviour 2135, 6164  
diapause 7157  
environmental factors 209  
botanical gardens, habitats, Honshu 2135  
control, Aphididae, pecans 4609  
distribution  
North America 6164  
USA 4041  
ecology, population dynamics 2135, 2576, 7759  
Honshu 7157  
pecans, orchards, USA 4609  
pesticides, effects 2576  
potatoes, habitats, Hokkaido 7759  
prey  
Aphididae 2135, 7759  
Aphidoidea 6164  
*Aphis gossypii* 2576  
rearing techniques 209  
watermelons, fields, Honshu 2576
- Harmonia conformis**  
*Boronia megastigma*, habitats, Tasmania 1737  
prey, *Ctenarytaina thysanura* 1737
- Harmonia quadripunctata**  
biology, reproduction 1873  
distribution, USA 4041
- Harmostini**  
distribution 11142  
phylogeny 11142
- Harpagoxenus sublaevis**  
biochemistry, hydrocarbons 10200  
genetics, genes 5143  
*Leptothorax*, interactions 10200
- Harpalus**  
biology, behaviour 4399  
cereals, fields, Switzerland 4399  
cultural methods, effects 4399  
ecology, population dynamics 4399  
ectoparasites 8364  
Michigan 8364  
monitoring, traps 4399
- Harpalus aeneus** (see *H. affinis*)
- Harpalus affinis**  
biology, behaviour 203, 9445  
crops, fields, New Zealand 9445  
ecology 1063  
fields, Belgium 203  
prey, insect pests 9445  
urban areas, Germany 1063
- Harpalus capito**  
ecology, population dynamics 5545  
figs, orchards, Honshu 5545  
Korea Republic 1158
- Harpalus eous**  
ecology, distribution 5447  
fodder crops, fields, Honshu 5447
- Harpalus griseus**  
morphology 8100  
predators 8100
- Harpalus jureceki**  
ecology  
distribution 5447  
population dynamics 5439  
fodder crops, fields, Honshu 5447  
monitoring, traps 5439  
rice, fields, Honshu 5439
- Harpalus pensylvanicus**  
apples, orchards, California 4558, 11851  
insecticides, effects 11851  
prey, *Cydia pomonella* 4558
- Harpalus rufipes**  
barley, fields, UK 6035, 6452, 7673  
biology  
behaviour 7673  
environmental factors 6452  
migration 1075  
ecology, dispersal 6035  
Moldova 1075
- Harpalus sinicus**  
ecology, distribution 5447  
fodder crops, fields, Honshu 5447
- Harpalus tridens**  
ecology  
distribution 5447  
population dynamics 5439, 5545  
figs, orchards, Honshu 5545  
fodder crops, fields, Honshu 5447  
monitoring, traps 5439  
rice, fields, Honshu 5439
- Harpobittacus**, taxonomy 6954
- Harpobittacus australis**, taxonomy 6954
- Harpobittacus nigriceps**, taxonomy 6954
- Harpobittacus phaeoscius**, taxonomy 6954
- Harpobittacus rubricatus**, taxonomy 6954
- Harpobittacus scheibeli**, taxonomy 6954
- Harpobittacus similis**, taxonomy 6954
- Harpobittacus tilyardi**, taxonomy 6954
- Hay**, insecticides, residues, determination 11402
- Haymatus blassus**, morphology 4875
- Hazelnuts** (*Corylus avellana*)  
*Alnetoidia alneti*, UK 2688  
arthropod pests  
America 9907  
damage 11917  
Europe 9907  
Poland 11917  
beneficial arthropods, Italy 4614  
insect pests, North America 4612  
Lepidoptera, Finland 2657  
orchards, Phytoseiidae, Italy 4613  
pest control 2589, 9907  
*Phytoptus avellanae*, Italy 4613  
plant protection 2809  
*Polygonia c-album* 530  
*Tydeus parainflatus*, Sweden 8057
- HCB**, residues, meat products 2298
- HCH**  
control  
*Agrotis ipsilon* 2398  
*Chilo partellus*, sorghum 6475  
insect pests  
pigeon peas 594  
sugarcane 11951



**HCH** *cont.*control *cont.*insect pests *cont.*

wheat, seeds 839

## Isoptera

field crops 8813

wheat 7666

*Sitona macularius*, peas 2493

## degradation

aquatic environment 500

*Pseudomonas* 9547

## effects

*Ariophanta bajadera* 6837*Bemisia tabaci* 5297

chickpeas 5466

*Corcyra cephalonica* 1325*Dictyostelium discoideum* 470

mice 10572

*Microcystis aeruginosa* 2317*Poekilocerus pictus* 10560

poultry 9595

rats 3365

soil, microorganisms 9633

wheat 7666

intake, man 10576

## nontarget effects

aquatic organisms 10628

marine mammals 3380

soil 11659

## residues

analysis 471

animal products 2345

aquatic environment 8597

aquatic organisms 471

cereals, commodities 6882

cod liver oil 3367

*Falco rusticolus* 11649

fisheries 11609

fishes 457, 461, 1370, 7579

food 467, 4789

foods 5755

*Gadus morhua* 1350

groundwater 8583

honey 8572

analysis 10634

human milk 6350, 8535, 10566

lakes, sediment 6380

man 7561, 8522, 8562, 8564, 11633

mangoes 5347

marine environment 3380

milk 6863, 11628

*Perna viridis* 10606*Pinus* 2700*Pipistrellus pipistrellus* 466

precipitation 4341

rivers 3400, 4327, 4329

runoff 6389

sediment 484

soil 2386

waste disposal 11667

water 1383

wildlife 2347

resistance, *Apis* 7585

synergists, interactions 5283

## toxicity

carp 8527

*Channa punctatus* 2341

fishes 8528

poultry 2314

*Sitophilus oryzae* 5283*Spodoptera litura* 6548*Tricliona picea* 9557 **$\alpha$ -HCH**

degradation, aquatic environment 500

## effects

animals 458

*Schistocerca gregaria* 6330

## residues

aquatic environment 2349

birds 5323

Denmark 9631

determination 2047, 4806

environment 1184, 2047

fishes 11673

mammals 2047

*Picea abies* 10969*Pinus sylvestris* 5671

rivers 3403

salt marshes, sediment 4344

sediment 11673

water 2346

 **$\beta$ -HCH**

## residues

birds 5323

environment 1184

salt marshes, sediment 4344

 **$\gamma$ -HCH** (*see* Lindane)**Heat resistance**, *Drosophila melanogaster*

6066

**Heat sums**, estimation 4061**Heat treatment***Bombyx mori*, effects 2147

## control

*Anastrepha suspensa*, fruits, commod-

ities 1775

## insect pests

buildings 1760

horticultural crops, commodities

4799

ornamental plants, commodities

5746

*Mayetiola destructor*, wheat, com-

modities 6873

stored products pests 1774

effects, *Cydia pomonella* 6265

nontarget effects, ornamental plants,

commodities 5746

**Heavy metals**

## effects

insects 2107

Sarcophagidae 4294

**Hecalus glaucescens**

Citrus, Turkey 1566

taxonomy 1566

**Hedera helix**, *Siphoninus immaculatus*, Den-

mark 1143

**Hedges**

beneficial insects, UK 6748

Carabidae, UK 6452

predatory arthropods, Germany 1101,

2113

Syrphidae, UK 7185

*Yponomeuta padellus*, UK 6748**Hedypathes betulinus**

biology 4648

*Ilex paraguariensis*, Rio Grande do Sul

4648

morphology 4648

**Heilipodus ventralis**

ecology, population dynamics 5716

*Gutierrezia*, Argentina 5716**Heinrichiessa sanpetella***Juniperus*

galls 12019

USA 12019

**Helianthus**, *Neolema cordata* 917**Helianthus annuus** (*see* Sunflowers)**Helichrysum**, *Europiella*, Holarctic Region

11127

**Helicidae**, parasitoids 4294**Helicoidea**, morphology 3252**Heliconius**, ecology 9318**Heliconius charithonia**, taxonomy 4864**Heliconius cydno**

Costa Rica 3795

morphology 3795, 9074

*Passiflora vitifolia*, Costa Rica 9074**Heliconius erato**

genetics, evolution 2959

morphology, wings 2959

**Heliconius hecale**

biology, behaviour 64

morphology 64

**Heliconius hewitsoni**

biology, mating behaviour 3936

*Passiflora pittieri* 3936**Helicophagella** (*see* Sarcophaga)**Helicopsis striata**, taxonomy 11471**Helicotylenchus indicus**, insecticides, effects

9749

**Helicoverpa**

parasitoids 5150

pathogens 4183

**Helicoverpa armigera**

Australia 2275, 9559

*Bacillus thuringiensis*, toxins, toxicity

11498

*Beauveria bassiana*, toxins, effects 11475

biochemistry

diapause 9211

enzymes 4253, 5110, 5601, 8423

pheromones 8140

**Helicoverpa armigera** *cont.*biochemistry *cont.*

proteins 8477

biology 1975, 3489, 10694

behaviour 179, 2184, 7212, 9810,

11334

development 4534, 9955, 11778

cabbages, Himachal Pradesh 4513

*Capsicum annuum* 4534

cell lines, pathogens 8423

chickpeas 6548

Andhra Pradesh 7741

damage 1483

Haryana 5464-5465

India 1484

Maharashtra 10772

Orissa 1483

Pakistan 10771

resistance 6545, 10772

Uganda 6545

China 6317, 7509

control 2404, 10694

biological control 1484, 1520, 4527,

7892, 10912

chemical control 5465, 7741, 7743,

8697, 8836, 9767, 10771,

10773, 10924, 11546, 11784,

11962, 12047

cultural control 9762

integrated control 1521, 7686, 9752

trapping 9961

cotton 8501

Andhra Pradesh 6731

Beijing 10912

China 5601, 10924, 11962

Hebei 9961

India 7892, 9963

Karnataka 4652

Kenya 1626

Maharashtra 8834-8836, 11971

New South Wales 6733

resistance 2628, 5268, 8835, 9963,

10925, 11971

Sudan 4668

Tamil Nadu 3612

Thailand 11970

varietal susceptibility 710

cowpeas 9767

Sri Lanka 1489

crops 179

Gujarat 11778

distribution

Australia 9367

Germany 10305

## ecology

distribution 5388, 6050, 8630

food plants 3688

population dynamics 1483, 4513,

10688, 10711

economic thresholds 4668

fertilizers, effects 3612

## field crops

China 10711

Hebei 412

Kenya 6050, 6427

Orissa 4660

Queensland 5388

South Africa 10536

Tamil Nadu 5609, 10557

food plants 7638, 9429

Andhra Pradesh 4389

Australia 3688

China 8630

Cote d'Ivoire 10682

damage 8630

forecasting 11334

## grain legumes

Indian Punjab 3489

reviews 9757

South Africa 9757

## greenhouse crops

Czech Republic 10820

damage 10820

growth regulators

effects 2256

toxicity 11576

Gujarat 1327

**Helicoverpa zea**, genetics, hybridization

9257

India 1975, 5230, 5302, 10538



***Helicoverpa armigera* cont.**

- insecticides
  - effects 4253
  - pathogenicity 7638
  - resistance 412, 1327, 2275, 4245, 5110, 5302, 5601, 6455, 6733, 9559, 10536, 10542-10543, 10546, 10557, 10682, 11970
  - monitoring 6317
  - synergists, effects 8501
  - toxicity 6319, 6548, 8684
- Jiangsu 11334
- maize
  - Pakistan 553, 1437
  - varietal susceptibility 553
  - Victoria 6455
- monitoring, traps 3489, 4652, 5464, 6605, 6609, 6731, 7509, 8834
- morphology, larvae 10127
- natural enemies 6427
- outbreaks 7261
- parasitoids 328, 1483, 1520, 4389, 4660, 9429
- pathogens 374, 710, 2184, 2191, 3256, 3411, 4156, 5230, 7397, 10411, 11521, 11531
- Phaseolus vulgaris* 2256
- pheromones 969, 4357, 5464
  - biosynthesis 8140
- physiology
  - endocrine system 11214
  - metabolism 84
- pigeon peas
  - Delhi 8697, 9760
  - Gujarat 9762, 11784
  - Karnataka 7743
  - Maharashtra 9764
  - Orissa 10773
  - Rajasthan 11783
  - resistance 8699, 9764-9765, 10775-10776
  - varietal susceptibility 9760, 9762
  - yield losses 11783
- plant extracts
  - attractants 3411
  - effects 8477, 8501, 9955
- predators 1626, 3214, 6050, 10912
- resistance 5609
- safflower, Maharashtra 12047
- sampling 10688
- Shandong 10542
- sorghum
  - Andhra Pradesh 7688
  - damage 5432
  - Delhi 5432
  - India 7686
  - resistance 1449, 7688
  - Sudan 1449
  - Tamil Nadu 2404
  - varietal susceptibility 5432
- South Africa 4156
- soyabeans
  - resistance 9752
  - Vietnam 9752
- tomatoes
  - Himachal Pradesh 1520
  - India 1521
  - Israel 4527
  - New Zealand 6605
  - Orissa 2533
  - resistance 5268
  - Spain 6609, 9810
  - varietal reactions 2533
- trap crops, India 1521
- Trifolium alexandrinum*, Himachal Pradesh 8684
- Uzbekistan 9257
- wheat
  - damage 2414
  - Hebei 10694
  - Zhejiang 10688
- Ximenia americana*, Nigeria 4761

***Helicoverpa assulta***

- Beijing 8137
- biochemistry, enzymes 7535
- biology, environmental factors 4007
- morphology, sensilla 11153
- pathogens 11476, 11531
- pesticides, toxicity 7535
- pheromones 8137, 9182
- physiology, glands 9182

***Helicoverpa assulta* cont.**

- tobacco 7535
- Helicoverpa punctigera***
- Australia 9260
  - biology 9260
  - ecology
    - distribution 5388
    - food plants 3688
  - field crops, Queensland 5388
  - food plants, Australia 3688, 6418
  - genetics, inbreeding 9260
  - insecticides, toxicity 2274, 6319
  - parasitoids 10267
- Helicoverpa zea***
- biochemistry
    - enzymes 6576, 8423
    - kinins 11201
    - pheromones 100
  - biology 8650
    - behaviour 1100, 1998, 4630, 6458, 9703
    - migration 1096
  - California 10684
  - Capsicum annuum*
    - damage 11832
    - Ohio 11832
  - cell lines, pathogens 2179, 8423, 9493
  - Chile 9269
  - control 2637, 4662, 4665, 10684
    - biological control 2191
    - chemical control 7675, 8702, 11832, 11969
  - cotton 7893
    - Florida 4667
    - Mississippi 2637, 4662
    - resistance 2634, 4665
    - South Carolina 11969
    - Texas 4665, 4670
  - cowpeas, Arkansas 8702
  - diets 9483, 9706
  - fungi, extracts, effects 4229
  - genetics
    - DNA 2960
    - genes 9236
    - groundnuts 4630
  - Helicoverpa armigera*, genetics, hybridization 9257
  - Heliothis virescens*, differentiation 9402
  - insecticides
    - effects 8496, 11603
    - metabolism 9578
    - pathogenicity 9483
    - resistance 10538
    - toxicity 7545, 9578
  - Lonicera japonica*, USA 4773
  - low input agriculture, effects 10684
  - maize 5420
    - California 9703
    - Chile 10706
    - Georgia 2425, 4426
    - North America 2436
    - resistance 558, 2425, 2431-2432, 2434, 4418, 4426, 8642, 9483, 9706, 10715, 10719
    - Sao Paulo 4416, 5420
    - South Carolina 6458
    - Texas 8650, 9702
    - USA 9706
    - Venezuela 7675
  - melons, Nicaragua 7799
  - Mississippi 9257
  - monitoring 8650
    - traps 9269, 9703, 11832
  - mycotoxins, antifeedants 3414
  - parasitoids 1998, 3041, 4416, 4418, 4667, 4773, 5420, 6184, 6188, 6196, 9420, 9442, 10706
  - pathogens 2191, 2436, 5209, 6233, 7453, 9485, 9511, 9702, 11499
  - phagostimulants, effects 6259, 8604
  - Phaseolus vulgaris* 9706
  - pheromones 969, 1100, 9703
  - physiology
    - digestive system 11195
    - pheromones 9172
  - plant extracts
    - effects 4259, 6576, 7893, 8508, 8598
    - growth regulators 5372, 6393
    - toxicity 6827
  - predators 3133, 4113, 4670, 7732, 9715

***Helicoverpa zea* cont.**

- sorghum
    - Arizona 2191
    - Arkansas 9715
    - Texas 4431
  - soyabeans 7732
    - Georgia 9753
    - resistance 3497, 9753
  - tobacco, transgenic plants, toxicity 7500
  - tomatoes, damage 5504
  - USA 1096
  - venoms, toxicity 11233
- Heliocheilus albipunctata***, parasitoids 2442
- Heliocheilus albipunctella***
- control, cultural control 2442
  - ecology, population dynamics 2442
  - millets, Niger 2442
  - parasitoids 2121
- Heliodines cliffordi***
- Mirabilis nyctaginea*, Illinois 10991
  - taxonomy, new species 10991
- Heliodines ionis***
- Mirabilis nyctaginea*, Illinois 10991
  - taxonomy 10991
- Heliodines nyctaginella***
- Mirabilis nyctaginea*, Illinois 10991
  - taxonomy 10991
- Heliodines tripunctella***
- Mirabilis nyctaginea*, Illinois 10991
  - taxonomy 10991
- Heliothinae***, taxonomy 6972
- Heliothis***
- control
    - biological control 10466
    - mating disruption 4655
  - cotton
    - resistance 2630
    - Sao Paulo 4655
    - Mexico 10466
    - parasitoids 5150
    - pathogens 4183
- Heliothis acesias***
- distribution, North America 4863
  - taxonomy 4863
- Heliothis armigera* (see *Helicoverpa armigera*)**
- Heliothis assulta* (see *Helicoverpa assulta*)**
- Heliothis australis***
- distribution, America 4863
  - taxonomy, new species 4863
- Heliothis maritima***, pheromones 520
- Heliothis peltigera***, *Verticillium lecanii*, toxins, effects 1260
- Heliothis phloxiphaga***
- distribution, North America 4863
  - taxonomy 4863
- Heliothis subflexa***
- biology, oviposition 10265
  - food plants 10265
  - genetics, pheromones 9225
  - Heliothis virescens*, hybridization 10265
  - physiology, pheromones 9225
  - symbionts 2936
- Heliothis subflexa* × *H. virescens***, symbionts 2936
- Heliothis virescens***
- alkaloids, effects 431
  - biochemistry
    - enzymes 4914, 8127, 8346, 10556
    - protein synthesis 5217
  - biological control agents, evaluation 4166
  - biology
    - behaviour 3976, 9957, 11332
    - development 2895
    - environmental factors 6077
    - oviposition 10265
  - Bracon hebetor*, toxins, toxicity 7347
  - Colombia 4979
  - control 2637, 4662
    - chemical control 11969
  - cotton 4657, 7394, 8842, 11968
  - Colombia 2627
  - Florida 4667
  - Louisiana 2625
  - Mississippi 2637, 2641, 4662, 9952, 9957
  - resistance 2633, 2641
  - Sao Paulo 1630
  - South Carolina 11969
  - Texas 716
  - USA 11966



- Heliothis virescens* cont.**  
 diets 10017  
 food plants 10265  
 genetics  
   genes, enzymes 4914  
   mitochondrial DNA 5992  
   mutants 3889  
   pheromones 9225  
*Helicoverpa zea*, differentiation 9402  
*Heliothis subflexa*, hybridization 10265  
 insecticides  
   metabolism 9578  
   pathogenicity 357  
   resistance 716, 2625, 2627, 4256,  
     4264, 4979, 5111, 5296, 8506,  
     9402, 9404, 9584, 10555-10556,  
     11966  
   toxicity 261, 3338, 4268, 8842, 9404,  
     9578, 11968  
*Lonicera japonica*, USA 4773  
 Louisiana 8506  
 Mississippi 4256  
 monitoring, traps 1630  
 mycotoxins, effects 5459  
 natural enemies 1003, 5217  
 North America 5992  
 parasitoids 86, 4667, 4773, 6196, 7337,  
   9442, 10587, 11421  
 pathogens 4657, 7394, 9512, 9952,  
   10429  
   interactions 7337  
 pheromones 9957  
 physiology  
   pheromones 9225  
   reproductive organs 3846  
 plant extracts  
   antifeedants 8608  
   effects 9957, 10017  
*Plectreus tristis*, toxins, effects 10498  
 pyrroles, toxicity 5279  
 symbionts 2936  
 tobacco, transgenic plants, toxicity 7500  
 tomatoes, resistance 2233  
 toxins, analogues, toxicity 8472  
 USA 5296, 9584  
*Heliothis virescens* × *H. subflexa*, parasitoids 11421  
*Heliothis virescens* × *H. subflexa*, physiology, pheromones 9173  
*Heliothis zea* (see *Helicoverpa zea*)  
*Heliothrips haemorrhoidalis*, *Viburnum tinus*, Italy 12027  
*Heliotropium bovei*, extracts, antifeedants, *Spodoptera littoralis* 8611  
*Heliotropium europaeum*, *Pachycerus cordiger*, France 2745  
***Helix aspersa***  
 biochemistry, neuropeptides 4969  
 ectoparasites 9427  
 endocrine system 137  
 heavy metals, effects 4134  
 insecticides, effects 8566  
 morphology, genitalia 2869  
 pathogens 8413  
 physiology  
   cardiovascular system 11472  
   water relations 356  
 plant extracts, repellents 7991  
 UK 4134  
*Helix aspersa aspersa*, physiology, nervous system 5918  
***Helix lucorum***  
 biochemistry, glands 11473  
 biology, behaviour 3248  
 France 3248  
***Helix pomatia***  
 biochemistry  
   brain 1912  
   enzymes 5893  
*Latrodectus tredecimguttatus*, venoms, effects 6217  
 physiology  
   cardiovascular system 1244  
   nervous system 118, 6217  
***Hellula undalis***  
 biology, environmental factors 4003  
 cabbages, Maharashtra 11815  
 cauliflowers  
   Indian Punjab 9795  
   resistance 9795  
 control, chemical control 11815  
***Hellula undalis* cont.**  
 Honshu 4003  
**Helminth insecticides** (see also Microbial pesticides)  
***Helopeltis antonii***  
 olfactometers 7633  
 pheromones 7633  
***Helopeltis antonii***  
 cashews  
   Karnataka 1587, 4615  
   Maharashtra 5569  
   resistance 4615  
   control, chemical control 1587, 5569  
*Eucalyptus*, Indonesia 1662  
***Helopeltis fasciaticollis***, tea, Hainan 7883  
***Helopeltis perniciosa***  
 cashews, Northern Territory 11920-11921  
 predators 11921  
 taxonomy, new species 11920  
***Helopeltis theivora***  
 cocoa  
   damage 6729  
   Malaysia 3607, 6729  
   control, integrated control 5592  
   insecticides, resistance 3607  
   tea, West Bengal 5592  
***Hemadas nubilipennis***, *Vaccinium angustifolium*, galls 4572  
**Hemerobiidae**  
 distribution, Slovakia 7196  
*Nerium oleander*, Honshu 797  
 orchards, Switzerland 8750  
***Hemerobius***  
 hops, fields, Washington 6834  
 prey, *Phorodon humuli* 6834  
***Hemerobius humulinus***  
 biology 7196  
 pecans, habitats, USA 2122  
 Slovakia 7196, 11363  
***Hemerobius pacificus***, control, *Acizzia uncatoides*, ornamental woody plants 8943  
***Hemerocallis yezoensis***, *Liriomyza hemerocallis*, Hokkaido 10021  
***Hemiberlesia lataniae***  
*Acacia cyanophylla*, Israel 7221, 11309  
 control, biological control 6695  
 dates, Gujarat 7858  
 ectoparasites 7221, 11309  
 kiwifruits, New Zealand 6695  
 parasitoids 7858  
 predators 7858  
***Hemiberlesia ptysoophila***, plant extracts, repellents 9661  
***Hemiberlesia rapax***  
 control, biological control 6695  
 growth regulators, effects 6679  
 kiwifruits  
   Chile 9901  
   New Zealand 6695  
***Hemichneumon subdulos***  
 forests, Austria 5028  
 hosts, *Taleporia tubulosa* 5028  
***Hemideina ricta***, songs 6053  
***Hemidesmus***, *Aleuroclava*, Tamil Nadu 21  
***Hemileuca***  
 America 1129  
 ecology 1129  
 taxonomy 1129  
***Hemileuca electra***  
 distribution, North America 8677  
*Erigonum fasciculatum*, North America 8677  
***Hemileuca electra mojavensis***, taxonomy, new subspecies 8677  
***Hemileuca electra rubra***, taxonomy, new subspecies 8677  
***Hemineura bigotti***  
 ecology, habitats 2729  
 shrubs, Spain 2729  
***Hemipodaphis persimilis***  
 biology, colony defence 5035  
*Zelkova serrata*, galls 5035  
***Hemiptarsenus varicornis***  
 hosts, *Liriomyza trifolii* 298  
 Taiwan 298  
**Hemiptera**  
 apples, orchards, China 8754  
 aubergines, Honshu 9814  
 Bangladesh 5393  
 bibliographies 11058  
 biochemistry, enzymes, detection 5104  
**Hemiptera cont.**  
 biology 6031  
   behaviour 7220  
   environmental factors 6541  
 broadleaves  
   galls 11348  
   UK 11348  
*Bromelia hemisphaerica*, Mexico 811  
 control, chemical control 7702, 8838,  
   9814  
 cotton  
   Maharashtra 8837-8838  
   yield losses 8837  
 crops  
   pollination 1198  
   Sudan 1198  
 distribution, Puerto Rico 10326  
 ecology  
   arthropod communities 4035  
   habitats 8754  
   population dynamics 191, 10695  
*Eucalyptus*  
   damage 5638  
   Northern Territory 5638  
 fertilizers, effects 10695  
 field crops, Estonia 10695  
 genetics, nucleotide sequences 160  
 insecticides, effects 3494  
 Italy 6031  
 kiwifruits, France 1561  
 lentils, fields, Turkey 1482  
 lucerne, fields, West Virginia 8682  
 maize  
   commodities  
     damage 4800  
     Mexico 4800  
 monitoring, traps 6126  
 morphology 2873  
   reproductive organs 4882  
 orchards, Switzerland 8750  
*Paraserianthes falcataria*, India 2679  
 pathogens 6228, 10415  
*Phaseolus vulgaris*, fields, Kenya 6541  
 phylogeny 160, 2873  
 predators 674  
 prey  
   *Antheraea yamamai* 8245  
   *Aphis fabae* 6541  
   *Hypera postica* 8682  
*Prosopis cineraria*  
   pollination 3649  
   Rajasthan 3649  
 rice  
   fields, Zhejiang 3466  
   Philippines 7702  
 Shandong 3097  
 soyabeans, Minas Gerais 7729  
 taxonomy 5787  
 wheat, UK 4409  
 woody plants, Iran 674  
**Hemirrhinae**, morphology, reproductive organs 7007  
***Hemiscarptes coccophagus***  
 biology, behaviour 7221  
 Coccinellidae, interactions 6695  
 control, Diapriidae 6695  
 hosts, Diapriidae 7221, 11309  
 Israel 7221  
***Hemiscarptes cooremani***, control, Diapriidae 6695  
***Hemiscarptes malus***, prey, *Lepidosaphes salicina* 2654  
***Hemisturmia tortricis***  
 hosts, *Rhopota naevana* 9855  
*Vaccinium*, fields, British Columbia 9855  
***Hemiteuxon japonicus***, genetics, DNA 4991  
***Hemiteuxon sasayamensis***, genetics, DNA 4991  
**Hemp** (*Cannabis sativa*)  
 habitats, insects, Delhi 4101  
 (1,3Z,6Z,9Z)-1,3,6,9-Heneicosatetraene,  
   pheromones, *Epirrita autumnata* 9181  
 (Z)-Heneicos-6-en-11-one  
   pheromones  
     *Orygia* 518  
     *Orygia pseudotsugata* 4718  
   synthesis 518  
***Henosepilachna*** (see also *Epilachna*)  
***Henosepilachna 12-punctata*** (see *Epilachna duodecimpunctata*)



- HEOD** (see Dieldrin)
- Hepialidae**  
distribution, Lithuania 1153  
New Zealand 8068  
taxonomy 8068
- Hepialus baimaensis** (see *Thitarodes baimaensis*)
- Hepialus gracilis**  
biology, life cycle 3927  
Vermont 3927
- Heptachlor**  
control  
*Cylas formicarius*, sweet potatoes 2518  
insect pests, sugarcane 11951  
*Linepithema humile* 10473  
Maladera, wheat 9673  
Maladera matrida, groundnuts 687
- effects**  
rats 1373  
sorghum 6471
- residues**  
analysis 6117  
cattle, models 4450  
cereals, commodities 6882  
determination 4806  
environment, models 4450  
extraction 4336  
fishes 457, 5344, 6363, 7579  
fodder plants 578  
food 4789  
*Gadus morhua* 5343  
groundwater 8583  
honey 8572  
lakes 6383  
man 8538  
milk 6863, 8517  
*Perna viridis* 10606  
pigs 5316  
residential areas, monitoring 255  
rivers 4329, 7611  
sediment 484, 5368  
soil 10637  
water 2346  
determination 7611
- Heptachlor epoxide**  
effects, birds 8550  
movement, marine environment, models 9632  
nontarget effects  
*Larus argentatus* 4306  
*Mergus serrator* 8537
- residues**  
cod liver oil 3367  
extraction 4336  
food 467, 4789  
honey, analysis 10634  
human milk 10566  
*Pipistrellus pipistrellus* 466  
soil 10637  
water 2346
- Heptadecadiene**, *Holothrips*, physiology, secretions 4934
- (3Z,6Z,9Z)-3,6,9-Heptadecatriene**, pheromones, *Chiasma clathrata* 4360
- (Z)-8-Heptadecene**, *Holothrips*, physiology, secretions 4934
- Heptadecen-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (Z)-14-Heptadecen-4-olide**  
pheromones, Lepidoptera 11687  
synthesis 11687
- (Z)-10-Heptadecen-2-one**, pheromones, *Drosophila buzzatii* 2935
- Heptadecyl acetate**, pheromones, *Acrobasis vaccinii* 7061
- (2R)-Heptane-2-ol**, pheromones, *Eriocrania sparmannella* 11686
- (2R)-(Z)-4-Hepten-2-ol**, pheromones, *Eriocrania sparmannella* 11686
- (Z)-4-Hepten-2-one**, pheromones, *Eriocrania sparmannella* 11686
- Heptenophos**, degradation, soil 1381
- Heptophylla picea**  
ecology, population dynamics 11958  
genetics 150  
tea, Honshu 11958
- Herbicide resistance**, insecticides, effects 9714
- Herbicides**  
control, insect pests, cotton 4662
- Herbicides cont.**  
effects  
insects 1223  
man 7574  
*Rhopalosiphum padi* 9692  
*Spurgia esulae* 2753  
interactions, insects 11036  
nontarget effects  
beneficial insects 6202  
*Melanagromyza sojae* 10755  
*Neoseiulus fallacis* 649  
Syrphidae 2111  
residues, residential areas, monitoring 255
- Hercinothrips femoralis**, insecticides, toxicity 7541
- Hermandia catalpaefolia**, *Papilio homerus*, Jamaica 3933
- Herpestomus brunnicornis**  
hedges, UK 6748  
hosts, *Yponomeuta padellus* 6748
- Hesperia comma**, ecology, population dynamics, models 1136
- Hesperiidae**  
biology, flight 192  
Colombia 5090  
microorganisms 3004  
morphology 6997  
genitalia 934  
Panama 192
- Hesperiodea**  
distribution, South Dakota 7274  
Mexico 4050
- Hesperotettix viridis**  
biology, behaviour 5448  
rangelands, Wyoming 5448
- Heteracris littoralis**  
insecticides, effects 4079  
Mauritania 4079
- Heterarthrus alnivorus**  
*Alnus matsumurae*, Honshu 731  
morphology 731  
taxonomy, new species 731
- Heterarthrus betulae**  
*Betula ermanii*, Honshu 731  
morphology 731  
taxonomy, new species 731
- Heterarthrus subflavipes**  
*Alnus maximowiczii*, Honshu 731  
morphology 731  
taxonomy, new species 731
- Heterocera**  
biology  
behaviour 229  
environmental factors 229  
food plants, New South Wales 229  
monitoring, traps 229  
physiology, pheromones 970  
predators 9348  
UK, books 8046
- Heterodera cajani**, insecticides, effects 9749
- Heterodera glycines**, interactions, *Hypena scabra* 10765
- Heteroderes**, distribution, India 8323
- Heteromeles arbutifolia**, *Siphoninus phillyrae*, California 11996
- Heteromurus nitidus**, predators 11427
- Heteronychia**  
Czech Republic 4294  
heavy metals, effects 4294  
hosts  
Helicidae 4294  
Lumbricidae 4294
- Heteronychus arator**  
*Acremonium*, interactions 6513  
control, chemical control 8816, 9779  
*Lolium perenne* 6513  
potatoes, Western Australia 9779  
sugarcane, Queensland 8816
- Heteronympha merope**, physiology, nervous system 4953
- Heteropanax fragrans**, *Samia cynthia ricini* 11467
- Heteropneustes fossilis**  
insecticides  
effects 3342, 9459  
toxicity 4303, 11638
- Heteropsylla**, distribution, Ecuador 912
- Heteropsylla cubana**  
biology 1678  
control 1678
- Heteropsylla cubana cont.**  
distribution 1678  
*Leucaena* 2132  
Reunion 10951  
*Leucaena diversifolia*  
Indonesia 2676  
resistance 2676  
*Leucaena leucocephala*  
Africa 1678  
America 8884  
damage 1678, 8884  
Indonesia 1654  
morphology 1678  
parasitoids 2128, 7348  
predators 2132
- Heteropsylla pulchella**  
*Pithecellobium excelsum*, Ecuador 912  
taxonomy, new species 912
- Heteropsylla spinulosa**  
control, *Mimosa invisa* 1752  
*Mimosa invisa*, Papua New Guinea 1752
- Heteroptera**  
apples, orchards, Switzerland 8760  
cereals, fields, UK 7241  
checklists 11100  
cowpeas  
Benin 6547, 6549  
damage 6549  
distribution, Russian Far East 4045  
ecology 11842  
habitats 7241  
population dynamics 6547  
*Eucalyptus*, habitats, Italy 5639  
food plants, Canary Islands 5390  
morphology 8105  
nature conservation, Netherlands 1118  
orchards, Yugoslavia 11842  
*Pinus*, forests, Poland 5675  
prey  
Aphididae 8760  
*Phoracantha semipunctata* 5639  
Russia 8105  
taxonomy, new species 4045
- Heterorhabditidae**  
bacteria, symbionts 4196  
biology, environmental factors 11489  
control, arthropod pests, evaluation 10469
- Heterorhabditis**  
biology 7411  
environmental factors 7400  
sex ratio 7406  
control  
*Amsacta albistriga*, groundnuts 5580  
*Conorhynchus mendicus*, sugarbeet 1617  
*Deroceras reticulatum*, evaluation 4136  
*Otiiorhynchus sulcatus* 10470, 10934  
*Cyclamen* 7973  
evaluation 7409  
strawberries 4574  
culture techniques 7403, 10934  
distribution, Sri Lanka 8406  
ecology 10450  
encapsulation 11389  
hosts  
*Amsacta albistriga* 5580  
*Galleria* 10450  
*Galleria mellonella* 378, 7400, 8406, 10456  
*Hypothenemus hampei* 3600  
insect pests 6257, 7395  
invertebrates 4136  
*Otiiorhynchus sulcatus* 4574, 7398, 10457  
*Popillia japonica* 2189  
*Tenebrio molitor* 10455  
nontarget effects, Diptera 541  
*Photorhabdus luminescens*, interactions 7401  
reproduction 2204  
vectors, entomopathogenic bacteria 9490
- Heterorhabditis argentinensis**, hosts, *Graphognathus* 7478
- Heterorhabditis bacteriophora**  
*Acremonium*, interactions 7452  
biology 7411  
control  
*Amsacta albistriga*, groundnuts 5580



**Heterorhabditis bacteriophora** cont.

control cont.

*Cylocephala hirta*, lawns and turf 791*Cylas formicarius*, sweet potatoes 2517*Diaphania hyalinata*, squashes 9824*Diaphania nitidalis*, Cucurbitaceae 6616*Hoplocampa testudinea*, evaluation 2220*Maladera matrida*, groundnuts 687*Zeuzera pyrina*, crops 2396

ecology, distribution 9746

genetics 377

hosts

*Amphimallon solstitialis* 2187*Amsacta albistriga* 5580*Cotinis nitida* 2186*Cylocephala hirta* 791*Galleria mellonella* 378

insect pests 379, 7395

insects 9522

*Otiorynchus ligustici* 4176, 9746*Popillia japonica* 2189, 4194, 4265, 7452**Heterorhabditis heliothidis**control, *Zeuzera pyrina*, crops 2396hosts, *Phthorimaea operculella* 6562**Heterospilus coffeicola**, hosts,*Hypothenemus hampei* 3600**Heterospilus megalopus**

biology, reproduction 68

hosts, *Anthonomus grandis* 68**Heterospilus nukunu**hosts, *Phoracantha* 5172

taxonomy, new species 5172

**Heterospilus prosopidis**

ecology, environmental factors, models 11451

hosts, *Callosobruchus chinensis* 11451**Heterotermes**

ecology, population dynamics 3476

rice, Goiás 3476

South Asia 11460

**Heterotermes indicola**

bioassays 849

*Bombax malabaricum*, wood 849

control, chemical control 7492

insecticides, repellents 11698

**Heterotermes tenuis**, Pygmephoridae, inter-

actions 2144

**Heterotheca villosa**, Acrididae, Alaska 3689**Heterothrips azaleae**

biology, phenology 1711

*Rhododendron*, Georgia 1711**Heterotropa**extracts, effects, *Luehdorfia japonica* 4356*Luehdorfia japonica* 4356**Heterotropa aspera**extracts, effects, *Luehdorfia japonica* 4356*Luehdorfia japonica* 4356**Hevea brasiliensis***Leptopharsa heveae*, Amazonas 719oils, repellents, *Hemiberlesia pitysophila* 9661**Hexachlorobenzene**

effects, rainbow trout 8554

nontarget effects

*Larus argentatus* 4306*Mergus serrator* 8537

residues

environment 1184

extraction 4336

food 4789

human milk 4312

lakes, sediment 6380

milk 8517, 11628

*Picea abies* 10968

rivers 4333

*Tachyplesus tridentatus* 8558**Hexachlorocyclohexane**, residues, rivers 4333**Hexachlorocyclohexanes**, residues,*Tachyplesus tridentatus* 8558**Hexacola hexatoma**, hosts, Diptera 6505**(10E,12E)-10,12-Hexadecadienal**, pheromones, *Manduca sexta* 8141**(10E,12Z)-10,12-Hexadecadienal**

pheromones

*Manduca sexta* 8141*Bombyx mori* 3304**(11Z,13Z)-11,13-Hexadecadienal**, pheromones, *Notodonta dromedarius* 10673**(10E,12Z)-10,12-Hexadecadiene-1-ol**, effects, *Bombyx mori* 2933**(10E,12E)-10,12-Hexadecadien-1-ol**, pheromones, *Bombyx mori* 3304**(10E,12Z)-10,12-Hexadecadien-1-ol**, pheromones, *Bombyx mori* 3304**Hexadecanal**, pheromones, *Heliothis maritima* 520**Hexadecan-1-ol**, pheromones, *Acrobasis vaccinii* 7061**(4E,6Z,11Z)-4,6,11-Hexadecatrienal**, pheromones, *Samia cynthia* 5196**(4Z,6E,11Z)-4,6,11-Hexadecatrienal**, pheromones, *Samia cynthia* 5196**(4Z,6Z,11Z)-4,6,11-Hexadecadienal**, pheromones, *Samia cynthia* 5196**(4E,6E,11Z)-4,6,11-Hexadecadienal**, pheromones, *Samia cynthia* 5196**Hexadecenal**, pheromones, *Conogethes punctiferalis* 8139**(E)-10-Hexadecenal**, pheromones, *Conogethes punctiferalis* 8139**(Z)-10-Hexadecenal**, pheromones, *Conogethes punctiferalis* 8139**11-Hexadecenal**, control, Lepidoptera, cotton 4655**(E)-11-Hexadecenal**mixtures, attractants, *Cryptoblabes gnidiella* 6669pheromones, *Heliothis maritima* 520**(Z)-11-Hexadecenal**

mixtures

attractants

*Acrolepiopsis assectella* 97*Cryptoblabes gnidiella* 6669

pheromones

*Chilo partellus* 5273, 5920*Helicoverpa armigera* 4357, 5464*Helicoverpa assulta* 8137

Lepidoptera 1630

*Manduca sexta* 8141*Plutella xylostella* 6575**(E)-9-Hexadecenal**, pheromones, *Heliothis maritima* 520**(Z)-9-Hexadecenal**

pheromones

*Helicoverpa armigera* 5464*Helicoverpa assulta* 8137**(Z)-11-Hexadecen-1-ol acetate**mixtures, attractants, *Acrolepiopsis assectella* 97

pheromones

*Mamestra brassicae* 4359*Spodoptera* 2428**(E)-11-Hexadecen-1-ol**, pheromones, *Heliothis maritima* 520**(Z)-11-Hexadecen-1-ol**mixtures, attractants, *Acrolepiopsis assectella* 97

pheromones

*Chilo partellus* 5273

Noctuidae 5272

*Plutella xylostella* 6575**(Z)-11-Hexadecenol**

pheromones

*Chilo infuscatellus* 7875*Chilo partellus* 5920**(Z)-9-Hexadecen-1-ol**, pheromones, *Helicoverpa assulta* 8137**(E)-11-Hexadecenyl acetate**pheromones, *Leucinodes orbonalis* 3144

synthesis 3144

**(Z)-11-Hexadecenyl acetate**, pheromones, *Cnaphalocrocis medinalis* 7631**Hexadecyl**, pheromones, *Acrobasis vaccinii* 7061**Hexaflumuron**

control

*Coptotermes formosanus*, wood 6893

insect pests, cowpeas 9771

effects, predatory insects 9771

mixtures, control, insect pests, cowpeas 9771

resistance, *Plutella xylostella* 6336**Hexaflumuron** cont.

toxicity

*Eulophus pennicornis* 9614*Plutella xylostella* 10669**Hexakis**, control, arthropod pests, strawberries 11868**Hexalure**, attractants, *Pectinophora gossypiella* 1627**Hexamermis**

culture techniques 6258

hosts

*Cydia hemidoxa* 810*Leptocoris augur* 6258*Ocnogyna baetica* 330**Hexamermis agrotis**, hosts, Noctuidae 3254**Hexanal**, pheromones, *Leptoglossus zonatus* 557**Hexane**, effects, *Myzus persicae* 11143**Hexanodiol**, attractants, *Bactrocera oleae* 6710**Hexanoic acid**attractants, *Macroductylus* 11730pheromones, *Leptoglossus zonatus* 557**Hexanol**, pheromones, *Leptoglossus zonatus* 557**Hexapoda**, morphology, reviews 8103**Hexazinone**, nontarget effects, soil arthropods 5354**(E)-2-Hexenal**

effects

*Agrotis segetum* 5834*Aphis fabae* 6410

insects 9979

*Lygus lineolaris* 7517pheromones, *Leptoglossus zonatus* 557secretions, *Lincus* 4885**(E)-2-Hexenoic acid**

secretions

*Lincus* 4885*Lincus spurcus* 4886**(E)-2-Hexenol**, effects, *Lygus lineolaris* 7517**(E)-2-Hexenyl acetate**, effects, *Heliothis virescens* 9957**(Z)-3-Hexenyl acetate**effects, *Heliothis virescens* 9957

mixtures

attractants

*Anomala octiescostata* 2766

Lepidoptera 9703

**(E)-2-Hexenyl butyrate**, effects, *Lygus lineolaris* 7517**Hexyl acetate**, pheromones, *Leptoglossus zonatus* 557**Hexyl butyrate**, effects, *Lygus lineolaris* 7517**Hexythiazox**

control

Acari

apples 9839

*Citrus* 8782*Tetranychus cinnabarinus*, greenhouse crops 10816effects, *Neoseiulus fallacis* 3344

nontarget effects, predatory mites 9839

resistance

*Panonychus ulmi* 4562, 8497*Tetranychus urticae* 2279

toxicity

*Brevipalpus phoenicis* 3558*Chrysoperla carnea* 10593**HHDN** (see Aldrin)**Hibiscus**, *Bemisia tabaci* 7974**Hibiscus***Aphis gossypii*, China 3007*Bemisia tabaci*, Netherlands 4759**Hibiscus cannabinus** (see Kenaf)**Hibiscus esculentus** (see Okras)**Hibiscus mutabilis**, *Aphis gossypii*, Honshu 10983**Hibiscus rosa-sinensis***Aphis gossypii*, Japan 10288

extracts

insecticidal properties 8958

toxicity, *Tribolium castaneum* 8958**Hibiscus sabdariffa**, commodities,*Spermophagus pygopubens* 11051**Hibiscus syriacus**, *Aphis gossypii*, Italy 11833**Hieracium pilosella**, Nicaeana, New Zealand 6521



*Hieracium praealtum*, Nicaeana, New Zealand 6521

*Hieroglyphus daganensis*  
ectoparasites 27, 3448  
sorghum, Niger 3448

*Hilda patruelis*  
groundnuts  
Africa 6713  
damage 6713

*Hildaehirschmannia*, taxonomy, new genus 8065

*Hildaehirschmannia coleopterophila*  
hosts, Cerambycidae 8065  
Lao 8065  
taxonomy, new species 8065

*Himantopus himantopus*, insecticides, residues 5323

*Hipparchia semele*  
biology, behaviour 5057  
Denmark 5057

*Hippiscus ocelote*  
biochemistry, chemical composition 339  
insects as food 339  
Michigan 339

*Hippiscus rugosus* (see *H. ocelote*)

*Hippodamia convergens*  
bacteria, effects 9316  
biochemistry, enzymes 88  
biology, dispersal 8940  
cold resistance 9316  
control, Aphididae, ornamental plants 8940  
fungi, effects 9316  
hops, fields, Washington 6834  
insecticides  
pathogenicity 9482  
toxicity 8798  
*Iva frutescens*, habitats, Rhode Island 8972  
lucerne, fields, Iowa 3484  
ornamental plants, habitats, California 8940  
parasitoids 336  
prey  
lucerne, insect pests 3484  
*Monelliopsis pecanis* 8798  
*Ostrinia nubilalis* 9482  
*Phorodon humuli* 6834  
*Uroleucon ambrosiae* 8972

*Hippodamia parenthesis*  
lucerne, fields, Iowa 3484  
prey, lucerne, insect pests 3484

*Hippodamia quinque-signata*  
*Chrysothamnus*, habitats, Colorado 4465  
prey, *Trirhabda nitidicollis* 4465

*Hippodamia tredecimpunctata*  
biology, behaviour 6176  
lucerne  
fields  
Iowa 3484  
Libya 3486  
prey  
*Diuraphis noxia* 6176  
lucerne, insect pests 3484

*Hippodamia tredecimpunctata tibialis*  
insecticides, pathogenicity 9482  
prey, *Ostrinia nubilalis* 9482

*Hippodamia undecimnotata*  
crops, fields, Yugoslavia 6166  
morphology, sensilla 9127

*Hippodamia variegata*  
biology  
behaviour 6176  
environmental factors 6541  
crops  
fields, Yugoslavia 6166  
habitats, Italy 11833  
distribution, USA 4041  
ecology 3095, 6166  
genetics, genetic markers 3152  
*Phaseolus vulgaris*, fields, Kenya 6541  
prey  
Aphididae 542  
Aphidoidea 3095  
*Aphis fabae* 6541  
*Aphis gossypii* 11833  
*Diuraphis noxia* 6176  
wheat  
fields  
Nei Menggu 3095  
South Africa 542

*Hippophae rhamnoides*  
*Macropis*  
Asia 5793  
France 5793

*Hippoteon eson*, biochemistry, metabolism 10164

*Hirsutella thompsonii* var. *synnematos*  
extracts  
effects  
entomogenous fungi 4149  
Tephritidae 4149

**Histeridae**  
checklists 4849  
crops, habitats, South Africa 3087  
ecology, population dynamics 3087  
pastures, habitats, South Africa 3087

**Histidine**, effects, *Bactrocera cucurbitae* 7029

*Histiostoma bananai*  
bananas, Egypt 3550  
taxonomy, new species 3550

*Histiostoma egyptiacum*  
bananas, Egypt 3550  
taxonomy, new species 3550

**History**, applied entomology, Australia 8350

**Hive products**, *Tyrophagus longior*, India 4790

**Hockeria**  
hosts, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440

*Hodotermes mossambicus*  
predators 2142  
South Africa 2142

*Hodotermopsis japonica*, effects 1233

*Hofmannophila pseudospretella*  
growth regulators, effects 6875  
plant extracts, effects 8953  
textiles 8953

*Hoheria angustifolia*, *Eriochiton hoheriae*, New Zealand 4870

**Holarctic Region**  
Aphelinoidea 5802  
Asteraceae, *Europiella* 11127  
Eulophidae 4830

*Holcocera pulvere*a (see *Pseudohypatopa pulvere*a)

*Holocranum bergevini*, taxonomy, synonyms, of *H. satirejae* 11090

*Holocranum eburneum*, taxonomy, synonyms, of *H. satirejae* 11090

*Holocranum karumense*, taxonomy, synonyms, of *H. satirejae* 11090

*Holocranum satirejae*  
taxonomy  
synonyms  
*H. bergevini* 11090  
*H. eburneum* 11090  
*H. karumense* 11090

*Holcus lanatus*, habitats, predatory arthropods, UK 9380

*Holcnemus pluchei*  
biology, behaviour 6193  
California 6193

*Hololepta quadridentata*  
bananas, plantations, Venezuela 1564  
prey, *Cosmopolites sordidus* 1564

*Holomastigotoides hartmanni*, *Coptotermes formosanus*, symbiosis 6203

*Holonotus*, taxonomy 6965

*Holothrips* 4934

*Holothrips hagai*, physiology, secretions 4934

*Holothrips japonicus*, physiology, secretions 4934

**Holotrichia**  
control, chemical control 685, 11792  
groundnuts, Rajasthan 685  
Gujarat 4029  
potatoes, Himachal Pradesh 11792  
predators 4029

*Holotrichia longipennis*  
biology, life cycle 3504  
potatoes, Uttar Pradesh 3504

*Holotrichia parallela*  
biology, life history 7831  
control, chemical control 7831  
crops, Sichuan 9342  
ecology, population dynamics 9342  
pathogens 11525  
strawberries, Jiangsu 7831

*Holotrichia serrata*  
control, chemical control 8891  
*Tectona grandis*, Sri Lanka 8891

*Holotrichia titanis* (see *Eotrichia titanis*)

*Homalodisca coagulata*  
physiology, nutrients 10003  
woody plants 10003

*Homarus americanus*, pesticides, residues 2336

**Homoeosoma**  
ecology, population dynamics 5716  
*Gutierrezia*, Argentina 5716

*Homoeosoma nebulella*, parasitoids 3201

*Homoeusa acuminata*  
Belgium 9413  
biology, behaviour 9413  
interactions, *Lasius fuliginosus* 9413

*Homona magnanima*  
biology, life history 6777  
insecticides, resistance 11579  
*Lithocarpus edulis*, Kyushu 6777  
tea, Honshu 11579

*Homoneura*, taxonomy 3733

**Homoptera**  
biology, behaviour 1995  
ecology 3009  
ecosystems 5082  
forests, West Virginia 7594  
grasslands, Nebraska 2020  
insecticides, effects, bioassays 10352  
irrigation, effects 2649  
monitoring, traps 2649  
old fields, South Africa 7262  
orchards, Slovakia 7802  
*Paraserianthes falcataria*, India 2679  
Poland 3009  
predators 2020, 8869  
*Quercus alba*, Missouri 8869  
*Rhododendron*, Georgia 1711  
taxonomy, phylogeny 8085  
tropical rain forests, Panama 2649

**Honduras**  
cocoa, insect pests 8825  
*Samanea saman*, *Merobruchus columbinus* 5631

**Honey**  
acaricides, residues 9601, 10605  
insecticides, residues 8572, 10634  
pesticides, residues 3394, 11662

**Honey bees**, books 2820

**Honeydew**  
*Acyrtosiphon pisum* 11770  
Aphididae 7780  
*Aphis fabae* 7204  
*Bemisia argentifolii* 2918  
*Nephotettix cincticeps* 7709  
*Nilaparvata lugens* 7705-7706  
*Planococcus vovae* 782

**Hong Kong**  
*Aphelinus* 9098  
*Blastophaga* 10103  
Sphingidae 6104  
vegetables, commodities, insecticide residues 3709

**Honshu**, Japan, rice, *Nilaparvata lugens* 6498

**Hoop pine** (see *Araucaria cunninghamii*)

**Hoplistoscelis**  
ecology, population dynamics 4468  
fertilizers, effects 4468  
soyabeans, fields, Florida 4468

*Hoplocallis pictus*  
parasitoids 5398  
*Quercus ilex*, Israel 5398

**Hoplocampa**  
biology 361  
pathogens 361  
plums  
China 361  
damage 361

*Hoplocampa testudinea*  
apples  
damage 6647  
Italy 11855  
Quebec 2220  
Switzerland 5529, 6647  
biological control agents, evaluation 2220  
biology 6647  
control, chemical control 6647, 11855  
monitoring, traps 11855



- Hoplochelus marginalis**, pathogens 4161, 11504
- Hops** (*Humulus lupulus*)  
fields  
Phytoseiidae, Oregon 12049  
predatory insects, Washington 6834  
habitats, Hymenoptera, Honshu 10380  
*Inachis io*, Honshu 10380  
pest control 3147  
pesticides, residues, determination 3146  
*Phorodon humuli*  
Spain 6835  
Washington 6834, 11007  
*Tetranychus urticae*, Oregon 12049
- Hordeum chilense**  
Aphididae, Chile 9741  
*Schizaphis graminum*, resistance 547
- Hordeum distichum** (see Barley)
- Hordeum marinum**, Aphididae, Chile 9741
- Hordeum spontaneum**  
*Rhopalosiphum padi*  
resistance 6453, 7674  
Sweden 6453
- Hordeum vulgare** (see Barley)
- Horismenus**  
*Eucalyptus cloeziana*, forests, Minas Gerais 7913  
hosts, *Lethata anophthalma* 7913
- Hormagathis**, taxonomy, synonyms, of *Basus* 2842
- Hormaphidinae**  
Brazil 2865  
taxonomy 2865
- Hormathophylla spinosa**  
*Ceutorhynchus*, Spain 10020  
pollinators 3195
- Hormones**, insects, books 8042
- Hormosianoeus mahunkai**  
bananas, Egypt 3550  
taxonomy, new species 3550
- Horridipamera nietneri**  
rice  
damage 9732  
Orissa 9732
- Horse chestnut** (see *Aesculus hippocastanum*)
- Horse manure**, *Hypoponera punctatissima*, UK 3079
- Hortensia similis**, rice, damage 10737
- Horticultural crops**  
Agromyzidae, Europe 2212  
Aphidoidea 392  
commodities, pest control 8992  
insect pests  
Italy 11705  
resistance 2231  
pest control 866, 11064  
economics 381  
pesticides, residues, determination 12067  
*Schistocerca gregaria*, West Africa 8468
- Host parasite relationships**  
immunology, reviews 7331  
models 3210, 8327  
sex ratio 7344
- Hostathion** (see Triazophos)
- Hot air treatment**  
control  
*Anastrepha ludens*, grapefruits, commodities 8024  
insect pests, mangoes, commodities 8013  
Tephritidae, pawpaws, commodities 10029
- Hot water treatment**  
control  
*Bactrocera tryoni* 383  
*Calepitrimerus vitis*, grapes 9872  
*Coccus viridis*, *Gardenia jasminoides* 7965  
insect pests  
mangoes, commodities 2769  
ornamental plants, commodities 5746  
effects, *Anastrepha* 11538  
nontarget effects, ornamental plants, commodities 5746
- Howardula aaronymphium**, hosts, *Drosophila* 358, 6240
- Howea forsteriana**, *Cephrenes augiades sperthias*, Victoria 10995
- Hultsia undulata**  
food plants, Idaho 1183  
monitoring, traps 1183
- Human milk**  
insecticides, residues 6349-6350, 8535, 10566  
pesticides, residues 4312, 11654
- Humicola**, extracts, toxicity, arthropods 11583
- Humulus lupulus** (see Hops)
- Hungary**  
*Ajuga*, invertebrates 10998  
apples, *Cydia* 10846  
*Autographa gamma* 8243  
Carabidae 3018  
cereals, *Oulema* 7647  
*Clepsis consimilana* 3117  
*Dracaena marginata*, Diaspididae 7978  
*Drosophila melanogaster* 6003  
Fabaceae, Bruchidae 8968  
field crops, insect pests 2733  
fields, habitats, Chrysopidae 9443  
fruits  
Anomala 4546  
Recurvaria 1530  
fungi, Diptera 3681  
Geometridae 4360  
grain legumes, Aphididae 10769  
grapes, *Calepitrimerus vitis* 7837  
habitats, Cantharidae 7803  
Lepidoptera 3118, 10483  
lucerne, insect pests 4458  
maize, *Ostrinia nubilalis* 6459  
*Melolontha melolontha* 11549  
ornamental conifers, Hemiptera 8901  
pest control 2389, 10459  
*Picea*, habitats, Araneae 3019  
plums, *Acalitus phloeocoptes* 6656  
*Quercus*, forests, *Coccinella septempunctata* 9323  
*Ribes*, *Synanthedon tipuliformis* 2565  
sugarbeet, *Bothynoderes punctiventris* 1618  
sunflowers  
Aphis fabae 7864  
fields, insects 7864  
temperate fruits, Tortricidae 2235  
vineyards  
Acari 7837  
Typhlodromus 1559  
weeds, biological control 11033
- Hyadaphis coriandri**  
*Foeniculum vulgare*, Israel 5398  
parasitoids 5398
- Hyaella azteca**  
insecticides  
effects 3377  
toxicity 1345, 10653
- Hyaesthes obsoletus**  
grapes, Germany 3547  
plant pathogens, transmission 3547
- Hyalopeplus vitripennis**  
distribution, Ryukyu Archipelago 5711  
*Melastoma malabathricum*, Ryukyu Archipelago 5711
- Hyalophora cecropia**  
*Betula papyrifera* 10936  
biochemistry, proteins 991  
carbon dioxide enrichment, effects 10936  
genetics, genes 7132  
pheromones 991  
physiology  
reproduction 1913  
reproductive organs 130
- Hyalopterus amygdali**  
biology 1548  
control, chemical control 1548  
ecology, population dynamics 9850  
peaches, Italy 1548, 9850
- Hyalopterus pruni**  
ecology, population dynamics 7260  
Germany 7260  
monitoring, traps 7260  
predators 1842  
*Prunus*, Spain 1842
- Hyblaea puera**  
pathogens 3630  
*Tectona grandis* 3630
- Hybosoridae**, taxonomy 9101
- Hydra viridissima**, insecticides, effects 5325, 11644
- Hydrachnellae**, insecticides, effects 7615
- Hydrarmethylinon**  
control  
*Linepithema humile* 2099  
*Solenopsis invicta* 3180
- Hydrangea**, *Pidonia tsuyukii*, Honshu 5707
- Hydrangea anomala**, *Elasmucha signoreti*, Hokkaido 3671
- Hydrangea paniculata**, *Nemophora bifasciata*, Japan 11094
- Hydrellia**  
control, chemical control 5436  
rice  
Cuba 4442  
Haryana 5436  
resistance 4442
- Hydrellia chinensis** (see *H. griseola*)
- Hydrellia griseola**  
barley  
Gansu 9689  
yield losses 9689
- Hydrellia philippina**  
control, chemical control 7713  
ecology, population dynamics 7713  
rice, Philippines 7713
- Hydrellia wirthi**  
biology, behaviour 3475  
control, integrated control 9724  
parasitoids 3475  
rice  
Colombia 1457, 3471, 3475, 9724, 10738  
damage 1457  
resistance 2470  
sampling 10738
- Hydrilla verticillata**  
*Bagous affinis* 6850  
California 2751  
biological control agents, evaluation 2751
- Hydriomena furcata**  
morphology, melanism 2876  
UK 2876
- Hydrocarbons**, attractants, *Varroa jacobsoni* 5379
- Hydrochloric acid**, effects, *Nosema* 360
- Hydrogen fluoride**, effects, *Lymantria dispar* 8866
- Hydrophilidae**  
crops, habitats, South Africa 3087  
ecology, population dynamics 3087  
*Eucalyptus*, Espirito Santo 3637  
Indonesia 5783  
monitoring, traps 3637  
pastures, habitats, South Africa 3087  
taxonomy 5783
- Hydroprene**  
control, stored products pests 8016  
effects, *Spodoptera mauritia* 3409
- Hydroxamic acids**  
antifeedants, Aphididae 6436  
effects, Aphididae 5404
- 2-(4-Hydroxybenzyl) cyclohexanone**, derivatives, effects, Aphididae 4349
- 7(R)-Hydroxydanaidal**  
pheromones  
Arctiidae 4928  
*Cretonotos transiens* 1889
- 20-Hydroxyecdysone** (see Ecdysterone)
- 3-Hydroxy-1-((methylcarbamoyl)oxy)naphthalene**, synthesis 6303
- (2R,5S)-(+)-2-(1-Hydroxy-1-methylethyl)-5-methyltetrahydrofuran**  
pheromones  
*Conophthorus coniperda* 9981  
*Conophthorus resinosae* 9982
- 5-Hydroxy-2-methyl-1,4 naphthoquinone**, effects, *Helicoverpa armigera* 8477
- 6-Hydroxynicotinic acid**, synthesis 11569
- trans-2-(3-(4-Hydroxyphenylpropenyl) amino)-3,5-dihydroxybenzoic acid**, repellents, *Pieris brassicae* 3417
- Hygia lativentris**  
biology, reproduction 9137  
Japan 9137
- Hylastes**, taxonomy 3658
- Hylastes angustatus**, *Pinus*, South Africa 760
- Hylastes cunicularius**, *Picea abies*, Norway 10974



**Hylastes opacus**  
distribution  
New York 3658  
USA 3126  
forest trees, New York 3658  
monitoring, traps 3658

**Hylesinus**  
Pacific Islands 1810  
taxonomy 1810

**Hylesinus varius**  
biology 2596  
ecology  
population dynamics 1602  
models 4626  
olives 2596  
Spain 1602, 2078, 4626  
parasitoids 2078, 4626  
rearing techniques 2596

**Hyllobius abietis**  
antifeedants 12007  
attractants 2704  
biology  
behaviour 758, 2704, 7905  
environmental factors 5623  
control  
chemical control 1704, 12006  
cultural control 6779  
forest trees 5623  
Czech Republic 12006  
forests, Czech Republic 7905  
monitoring, traps 2704, 7905, 12006

**Picea sitchensis**  
damage 1700  
UK 1700

**Pinopsida** 758  
Czech Republic 12007  
damage 6779  
Sweden 6779

**Pinus**, France 2704

**Pinus sylvestris**  
France 4734, 6780  
Sweden 6784  
plant extracts, attractants 758  
plant pathogens, transmission 3284, 4734, 6780

**Pseudotsuga menziesii**, France 1704

**Hyllobius congener**  
biology, seasonal abundance 4571

**Pinus**, Quebec 4571

**Hyllobius pales**  
antifeedants, effects 2258

**Pinus**  
damage 8898  
Florida 8898  
Wisconsin 8912

**Pinus strobus** 2258

**Hyllobius radicis**  
monitoring 8915  
parasitoids 8912

**Pinus**, Wisconsin 8912

**Pinus sylvestris**  
damage 8915  
Manitoba 8915

**Hyllobius rhizophagus**, *Pinus*, Wisconsin 8912

**Hyllobius warreni**  
control, cultural control 6790

**Pinus contorta**  
Alberta 6790  
damage 6790

**Hyloterpes undafus**, arthropod pests 6689

**Hylomecon japonicum**, *Epilachna yasutomii* 4493

**Hyloniscus riparius**, physiology, digestive system 10177

**Hylotrupes bajulus**  
biology, behaviour 9174  
morphology, glands 5833  
pheromones 5833, 9174

**Hylurgops palliatus**  
biology, behaviour 2390

**Pinus sylvestris**, Sweden 2390

**Hymenia recurvalis** (see *Spoladea recurvalis*)

**Hymenolepis diminuta**, hosts, *Tribolium* 2161

**Hymenolepis diminuta**, hosts, *Tribolium* 7389

**Hymenoptera**  
attractants 1650  
Bahamas 11459

**Hymenoptera cont.**  
bibliographies 11057  
biochemistry, venoms 9175  
biology 10286  
behaviour 8252  
models 3048  
environmental factors 4581  
reproduction 1078  
models 73  
broadleaves  
galls 11348  
UK 11348

**Bromelia hemisphaerica**, Mexico 811

cereals, fields, Germany 1125  
collections 3765  
control, arthropod pests, horticultural crops 10465  
crops  
pollination 1198  
Sudan 1198

Cycadaceae, Australia 5622  
distribution, Puerto Rico 10326  
ecology 4677, 11459  
ecosystems 5082  
habitats 4036  
population dynamics 191, 6437, 7946, 8292  
reproduction, reviews 952  
species diversity 3129  
evolution 8049, 9107

figs  
Panama 4581  
pollination 4581

forests  
Costa Rica 4677  
India 5663

fruit vegetables, Austria 10465  
genetics  
chromosomes 4987  
mitochondrial DNA 11270  
models 1948

Germany 1650  
grasses, habitats, Mexico 4036  
grasslands  
Austria 4452  
Nebraska 2020

hosts  
*Acronicta rumicis* 7635  
Aphididae 6437  
*Artora chorista* 1735  
Cecidomyiidae 1753  
Cicadellidae 4036  
*Dioryctria abietella* 5663  
*Frumenta* 8982  
insects 4677  
*Lambdina ferdinaria athasaria* 2708  
insecticides, effects 8660  
*Litchi chinensis*, orchards, Taiwan 10885

maize  
commodities  
damage 4800  
Mexico 4800  
monitoring, traps 4452  
morphology, ovipositors 1800  
ornamental plants, Austria 10465  
parasitoids 901  
pesticides, effects 2335  
phylogeny 11139

**Picea abies**, Poland 1699

**Pinus koraiensis**, Korea Republic 7946

**Pinus sylvestris**, UK 2696  
predators 2020, 8869

**Prosopis cineraria**  
pollination 3649  
Rajasthan 3649

**Quercus alba**, Missouri 8869

**Rhododendron**, Georgia 1711

rice, fields, Kyushu 8660

**Tabebuia chrysotricha**, Sao Paulo 8358

taxonomy, phylogeny 1800

**Tsuga**, forests, Connecticut 2708

wheat  
fields  
Syria 6437  
UK 4409

**Hyophorbe verschaffeltii**, *Metamasius hemipterus sericeus*, Florida 2239

**Hyoscyamus muticus**, *Myzus persicae*, Himachal Pradesh 8955

**Hypera crassalis**  
parasitoids 2859

**Hypera crassalis cont.**  
*Vaccinium myrtillus* 2859

**Hypera scabra**  
biology, behaviour 1998  
control  
chemical control 9750  
cultural control 10762  
ecology 3493  
interactions, *Heterodera glycines* 10765  
parasitoids 1998, 3493, 6188  
pathogens 10762  
predators 7190  
sorghum, Ohio 10762  
soyabeans  
damage 6539, 10764  
Iowa 6539  
Ohio 3493  
USA 9750

**Hypera postica**  
biology 9747  
environmental factors 4460  
ecology, population dynamics 9747  
forecasting 8680  
irrigation, effects 8679  
lucerne  
Alberta 8680  
damage 2481  
Illinois 6519  
Iowa 3484  
Manitoba 8679  
Minnesota 4460  
Nebraska 2481  
resistance 7723  
Saudi Arabia 9747  
Turkey 7723  
West Virginia 8682  
natural enemies 4460, 8682  
parasitoids 3229  
pathogens 6519  
predators 3484  
waste water, effects 9747

**Hypera punctata**  
ecology, habitats 11751  
pastures, Honshu 11751

**Hyperaspis delicatula**  
cassava, fields, Nigeria 1498  
prey, *Phenacoccus manihoti* 1498

**Hyperaspis notata**  
biology 2514  
cassava, fields, Colombia 2514  
prey, *Phenacoccus herreni* 2514

**Hyperaspis pumila**  
cassava, fields, Nigeria 1498  
prey, *Phenacoccus manihoti* 1498

**Hyperaspis trifurcata**  
biochemistry, defensive secretions 3826  
biology, behaviour 3826

**Hypercompe indecisa**  
predators 7732  
soyabeans 7732

**Hypericum**, *Actinotia hyperici* 10297

**Hypericum perforatum**, *Actinotia hyperici* 10297

**Hyperomyzus lactucae**  
biological control agents, evaluation 6269  
biology, phenology 2608  
galls 3044  
plant pathogens, transmission 2608  
sugarcane, Queensland 2608

**Hyphantria cunea**  
biochemistry  
digestive system 11515  
enzymes 7537  
lipophorins 10176  
proteins 2901, 7086  
biology, behaviour 11703  
control, trapping 11703  
distribution, Switzerland 9863  
ecology, population dynamics, models 1135  
food plants, Italy 11703  
growth regulators, toxicity 7536-7537  
*Ilex opaca* 6808  
Italy 11703  
moulting hormones, effects 7533  
parasitoids 7309  
pathogens 6230, 11515  
pheromones 11703  
physiology, development 5937

**Hyphessobrycon bifasciatus**, insecticides, metabolism 7558



- Hypoaspis aculeifer**, biology, behaviour 1102
- Hypoaspis miles** (see *Stratiolaelaps miles*)
- Hypoclinea**, taxonomy, synonyms, of *Dolichoderus* 37
- Hypodryas gillettii**  
biochemistry, defence 11289  
genetics, population genetics 173  
meadows, USA 173  
USA 11289
- Hypogastrura**, taxonomy 7910
- Hypogastrura denticulata**  
fungi 10268  
*Onychiurus furcifer*, interspecific competition 10268
- Hypogastrura simsi**  
forest trees, Maryland 7910  
taxonomy, new species 7910
- Hypolimnas bolina**, parasitoids 10267
- Hypolixus truncatulus**  
*Acacia nilotica*  
damage 6773  
Madhya Pradesh 6773  
*Amaranthus hypochondriacus*, Delhi 4517  
biology, behaviour 6773  
control  
cultural control 4517  
*Polygonum glabrum*, evaluation 4785  
food plants 4785
- Hypoponera punctatissima**  
ecology, habitats 3079  
horse manure, UK 3079  
introduction, UK 2023
- Hyposoter didymator**, hosts, *Helicoverpa armigera* 9429
- Hypothenemus**  
plant pathogens, transmission 9475  
taxonomy 1810
- Hypothenemus eruditus**  
*Celtis tenuifolia*, Ontario 818  
distribution, Canada 818
- Hypothenemus hampei**  
biology 3602-3603  
development 8337  
coffee 3603  
Cote d'Ivoire 9939  
damage 2619, 3602, 9938  
Ecuador 6728  
El Salvador 9938  
India 3600  
Mexico 2619  
New Caledonia 258, 397  
North America 9939  
Tamil Nadu 3602  
control 3602-3603, 6728  
reviews 3600  
diets 8337  
ecology 3603  
population dynamics 2619  
ectoparasites 2124  
genetics  
genes 9583  
insecticide resistance 258  
genetic diversity 9939  
insecticides, resistance 258, 397, 5293, 9583  
natural enemies 3600  
New Caledonia 5293  
parasitoids 3915, 10271  
pathogens 7391  
rearing techniques 8337  
sampling 9938
- Hypselistes**  
taxonomy 4825  
new species 4825
- Hypsipyla grandella**  
broadleaves  
Cuba 1652  
damage 1652  
*Toona ciliata*, resistance 6769
- Hypsipyla robusta**  
broadleaves, Uttar Pradesh 1676  
insecticides, toxicity 8890  
pathogens 1676  
*Toona ciliata* 8890  
Pakistan 8850
- Hyptis spicigera**, extracts, effects, Coleoptera 4801
- Hyptis urticoides**  
*Glyphipteryx*  
Costa Rica 10022  
galls 10022
- Hypurus bertrandi**, *Portulaca oleracea*, Australia 3695
- Hyssopus grossoris**  
hosts, *Paranthrene tabaniformis* 902  
taxonomy, new species 902
- Hyssopus pallidus**, taxonomy, from *Elacher-tus pallidus* 902
- Hysteroneura setariae**  
biology, phenology 2608  
plant pathogens, transmission 2608, 7687, 10725  
sorghum 7687, 10725  
sugarcane, Queensland 2608
- Iberis amara**, extracts, antifeedants, *Pieris rapae* 8609
- Iberoformica**, taxonomy, synonyms, of *Formica* 1817
- Icaricia icarioides**  
biology, behaviour 220  
Colorado 220
- Iceland**  
*Falco rusticolus*, pesticide residues 11649  
fishes, pesticide residues 2334  
Opiliones 1142
- Icerya aegyptiaca**  
*Artocarpus heterophyllus*, Bangladesh 5393  
*Codiaeum*, Australia 9085  
Fabaceae, Israel 1723  
food plants, Bangladesh 5393  
natural enemies 1723  
predators 9085
- Icerya pattersoni**, control, integrated control 5266
- Icerya purchasi**  
Fabaceae, Israel 1723  
natural enemies 1723
- Ichneumon promissorius**  
biology  
development 5150  
environmental factors 9420  
hosts  
*Helicoverpa zea* 4418  
Noctuidae 5150, 9420
- Ichneumonidae**  
*Abies alba*, habitats, Italy 9995  
bibliographies 300  
biology 388  
China 9425  
coffee, habitats, Thailand 4644  
control, Lepidoptera 388  
*Cryptomeria japonica*, habitats, Japan 6804  
distribution  
Korea Democratic People's Republic 4042  
Lithuania 1153  
Turkey 11374  
evolution 8049  
forests, Austria 5028  
hosts  
*Callidiellum rufipenne* 6804  
*Epinotia nigricana* 9995  
*Neoleucinodes elegantalis* 3565  
*Trypoxylon rogenhoferi* 9264  
*Xylotrechus quadripes* 4644  
insecticides, effects 6522  
lucerne, fields, Czech Republic 6522  
taxonomy 9425  
Venezuela 250
- Ichneumoninae**, distribution, Spain 9373
- Ichneumonoidea**, wheat, fields, UK 7496
- Ichneumonopsis burmensis**, taxonomy, revisions 6967
- Ichneutinae**  
hosts, insects 11106  
taxonomy 11106
- Ictalurus furcatus**, insecticides, residues 8530
- Ictobius bubalus**, insecticides, residues 8530
- Idaea aversata**  
morphology, melanism 2876  
UK 2876
- Idaea obsoletaria**, Spain 2028
- Idiocerus**, distribution, Himachal Pradesh 6980
- Idiocerus cedarae**  
*Cedrus deodara*, Himachal Pradesh 6980  
taxonomy, new species 6980
- Idiocerus deodarae**  
*Cedrus deodara*, Himachal Pradesh 6980  
taxonomy, new species 6980
- Idiocerus dilatatus**  
grasses, Heilongjiang 10098  
taxonomy, new species 10098
- Idiocerus prominulus**  
grasses, Heilongjiang 10098  
taxonomy, new species 10098
- Idiocerus sharmai**  
*Salix*, Himachal Pradesh 6980  
taxonomy, new species 6980
- Idiocerus ulmus**  
taxonomy, new species 10098  
*Ulmus*, Heilongjiang 10098
- Idioscopus niveosparsus**, distribution, Australia 6953
- IKI-7899** (see *Chlorfluazuron*)
- Ilex**, *Pidonia tsuyukii*, Honshu 5707
- Ilex crenata**, *Panonychus citri*, Japan 789
- Ilex opaca**, insect pests 6808
- Ilex paraguariensis**  
*Hedypathes betulinus*, Rio Grande do Sul 4648  
insect pests, Brazil 3629
- Illicium verum**, extracts, toxicity, Coleoptera 6864
- Imazaquin**, interactions, insecticides 10632
- Imbrasia cytherea**  
biochemistry, metabolism 10164  
pheromones 2050
- Imidacloprid**  
control  
arthropod pests  
aubergines 9814  
*Citrus* 11896  
sugarbeet 11954  
*Bemisia tabaci*  
tomatoes 628  
vegetables 11774  
Homoptera, cereals 10699  
insect pests  
cereals 6430  
seeds 8028  
soyabeans 1473  
sugarbeet 2611, 10907, 11953  
*Myzus persicae*, lettuces 6596  
*Nilaparvata lugens*, rice 6498  
*Sitobion avenae*, cereals 7643  
*Thrips palmi*  
*Phaseolus vulgaris* 5462  
vegetables 11775  
*Tomicus piniperda*, *Pinus sylvestris* 9991  
effects  
*Apis mellifera* 9616  
*Bemisia tabaci* 7528  
*Locusta migratoria* 4249  
*Rhopalosiphum padi* 3436  
*Somaticus* 4415  
*Torpedo nobiliana* 9615  
formulations 11572  
insecticidal properties 3331  
mixtures, control, *Bemisia tabaci*, tomatoes 4521  
nontarget effects, soil 10647  
residues, determination 6498  
toxicity  
insect pests 7541  
insects 9589  
*Maladera matrida* 8511  
*Steinernema carpocapsae* 7583  
uses 2264
- Imidazole**  
effects  
*Bombyx mori* 2148  
*Gryllus bimaculatus* 8167
- Imidazoles**, effects, *Locusta migratoria* 4350
- Impatiens balsamina**  
*Spodoptera pectinicornis* 6851  
*Theretra latreilli*, Australia 3667
- Impatiens walleriana**  
*Frankliniella bispinosa*, damage 2716  
*Theretra latreilli*, Australia 3667
- Inachis io**, biochemistry, endocrine system 3850
- Inachis io geisha**  
hops, Honshu 10380



- Inachis io geisha** *cont.*  
parasitoids 10380
- Incagonum**, taxonomy, new genus 32
- Incilaria fruhstorferi**, physiology, nervous system 8150
- Incisitermes**, South Asia 11460
- Incisitermes furvus**  
forest trees, Puerto Rico 3763  
taxonomy, new species 3763
- Incisitermes minor**  
Florida 6968  
taxonomy 6968
- Incisitermes schwarzi**  
biology, reproduction 1231  
Florida 1231, 6968  
taxonomy 6968
- Incisitermes snyderi**  
Florida 6968  
fumigants, toxicity 9588  
taxonomy 6968
- Incurvaria vetulella** group  
Europe 11107  
taxonomy 11107
- India**  
cereal grains, pest control 1781  
Acridoidea 1032  
Agrypnus 6952  
Ammannia baccifera, Nanophyes 8983  
Aphelinus 9098  
bananas, insecticide residues 11888  
biological control, reports 3716  
Blastodiplosis quadrata 5819  
Capsicum, pest control 3677  
Carpocorini 4828  
cashews  
arthropod pests 678  
reports 9021  
Cedrus deodara 5680  
cereal grains, pest control 847  
Chromolaena odorata, biological control 11028  
Cicadelloidea, natural enemies 3716  
Cicindelidae 10258  
coconuts, Oryctes rhinoceros 8453  
coffee  
Hypothenemus hampei 3600  
Saissetia coffeae 1623  
Coleoptera 6942  
Convolvulus, Cassida indicola 948  
cotton  
Helicoverpa armigera, predators 7892  
Hemiptera 714  
insect pests 7894  
insecticide residues 3617  
Lepidoptera 9963  
cowpeas, Aphis craccivora 8705  
Dalbergia sissoo, Sinoxylon anale, parasitoids 5158  
Diplosocus 14  
Drosophila 3899, 3904  
Drosophila ananassae 2991, 3903, 5007  
Drosophila bipectinata 1060  
Drosophila immigrans 3907  
Drosophila malerkotliana 3905  
Drosophila melanogaster 7133, 11257  
Dysaphis 15  
Elateridae 7007  
Eriophyes 1543  
Fabaceae, Cameraria 1824  
field crops, Aproaerema modicella 5391  
fodder plants, Thysanoplusia orichalcea 1469  
food plants, Spilostethus hospes 8622  
foods, insecticide residues 5755  
forest trees  
Dioryctria abietella, parasitoids 5663  
insect pests 9040, 10928  
Lanelater 1640  
forests  
books 9040  
insects, books 888  
Halyomorpha picus 4828  
Helicoverpa armigera 1975, 5230, 5302, 10538  
Heteroderes 8323  
hive products, Tyrophagus longior 4790  
Indian mustard, Lipaphis erysimi 8723, 10802  
insect pests, importation 3697  
integrated pest management 9533, 10480  
Isoptera 11460
- India** *cont.*  
Kerria lacca, predators 5159  
lemons, Phyllocnistis citrella 5552  
Lepidoptera 24  
parasitoids 5159  
linseed, Chromatomyia horticola 11924  
mandarins  
Aleurocanthus woglumi 7844  
Deudorix isocrates 7843  
Metaphycus 18  
milk, pesticide residues 8516  
mushrooms, Diptera 3680  
National Parks, Rhopalocera 8251  
Odonata 11366  
Odontotermes wallonensis 7369  
onions, Thrips tabaci 7765  
Orobanchae, biological control, reviews 8007  
Pectinophora gossypiella 8502  
pesticides 3312  
residues, legislation 3598  
pigeon peas, Mylabris pustulata 8698  
plantation crops, pest control, reports 1782  
Pleurotus sajor-caju, Megaselia 5699  
potatoes  
commodities, Phthorimaea operculella, predators 5475  
insecticide residues 11888  
Prociphilus himalayensis 1693  
Psammotus 6982  
radishes, Aphididae 6569  
rape, Lipaphis erysimi 5572  
Rhopalocera 1144  
rice  
Cnaphalocrocis medinalis 570  
fields, soil, microorganisms, insecticide residues 9633  
Leptocoris acuta 3455  
Nisaga simplex 7712  
Sitotroga cerealella 6490  
Sogatella furcifera 4440  
Ricinus communis, Liriomyza trifolii 1607  
rivers, insecticide residues 4327  
sapidillas, Anarsia achrasella, parasitoids 7857  
sorghum  
Contarinia sorghicola 5428  
insect pests 7686  
peregrinus maidis 8654  
sugarcane  
Aleurolobus barodensis 3590  
Aleyrodidae 1615  
Chilo auricilius 4638  
insect pests 3589  
Pyrrilla perpusilla 5583  
natural enemies 3593  
parasitoids 3594  
Scirpophaga excerptalis 4639  
Trochorhopalus sacchari 2607  
sunflowers, Spilarctia obliqua 7865  
sweet potatoes, commodities, Cylas formicarius 11053  
tea  
insect pests 2615  
pest control 867, 2614, 5591  
Toxoptera aurantii, natural enemies 8824  
tomatoes, Helicoverpa armigera 1521  
Trichogrammatidae 11418  
Vigna radiata, Bemisia tabaci 5470  
Zygogramma 1750-1751  
Zygogramma bicolorata 1749  
Andaman and Nicobar Islands  
Bactrocera dorsalis 11887  
bananas, Erionota thrax 1563  
cashews, Tinda indica 1586  
Cinnamomum zeylanicum, Eudemio-  
sis archimedis 1718  
coconuts, Oryctes rhinoceros 1599  
Piper beetle, Cydia hemidoxa 1718  
rice, insect pests 1456  
Scarabaeidae 1145  
Stratiomyidae 1586  
sugarcane, Pseudococcus sacchar-  
icola 9922  
weeds, insects 1747
- Andhra Pradesh**  
Aristolochia, Atrophaneura aris-  
tolochiae 6034
- India** *cont.*  
Andhra Pradesh *cont.*  
aubergines, insect pests 9815  
Bemisia tabaci 5297  
Carabidae 7008  
chickpeas, Helicoverpa armigera 7741  
Cnaphalocrocis medinalis 7631  
cotton, Helicoverpa armigera 6731  
crops, Helicoverpa armigera, para-  
sitoids 4389  
Exorista bombycis 6272  
Fabaceae, Spodoptera litura 5581  
food plants, Zygogramma bicolorata 1748  
groundnuts  
Aproaerema modicella 8811  
integrated pest management 2599  
Lepidoptera 9471  
maize, Termitidae 7678  
mangoes  
Deanolis albizonalis 10881  
Thysanoptera 4596  
okras  
insect pests 6624  
insecticide residues 6624  
poultry, insecticides, effects 9595  
rice  
Diadisa armigera 7707  
Orseolia oryzae 2460  
Scirtothrips dorsalis 7550  
sorghum  
Calocoris angustatus 7690  
Contarinia sorghicola 1445, 5427, 5431  
insect pests 7688  
Peregrinus maidis 561  
soybeans, insect pests 1473  
Spermophagus pygopubens 11051  
tobacco, commodities, Lasioderma serricorne 8019  
Vitex negundo, pollinators 5684
- Arunachal Pradesh, Citrus, Phyllocnistis citrella** 9891
- Assam**  
Citrus, Anoplophora versteegii 9884  
Coccophagus malthusi group 1819  
okras, Bemisia tabaci 2541  
pigeon peas, Apion amplum 9763  
rice, Scirpophaga incertulas 4441, 10741  
sugarcane, Chilo tumidicostalis 11952  
tea, insecticide residues 10620  
Vigna radiata, Bemisia tabaci 9766, 11789
- Bihar**  
Antheraea mylitta 8400  
Brassica, Plutella xylostella 8729  
Butea monosperma, Kerria lacca, parasitoids 11431  
chickpeas, Helicoverpa armigera 1484  
crops, Aphis craccivora, natural en-  
emies 7727  
okras, Tetranychus ludeni, predators 5513  
pigeon peas  
insect pests 7742  
pest control 594  
rice, Orseolia oryzae 2443  
sugarcane  
Scirpophaga excerptalis 9921  
parasitoids 6718  
Terminalia arjuna, Apoderus tran-  
quebaricus 725
- Delhi**  
Amaranthus hypochondriacus, Hypolixus truncatulus 4517  
Brassica  
Aphididae 11811  
Plutella xylostella 8729  
cauliflowers, Spilarctia obliqua 5499  
chickpeas, insect pests 592  
cotton  
Amrasca devastans 7896  
Bemisia tabaci 7896  
insect pests 1631  
crops, habitats, insects 4101  
Fabaceae, commodities, insects 10042  
groundnuts  
insect pests 9769, 11936-11937



**India cont.****Delhi cont.**

groundnuts cont.  
insects 9770

pigeon peas, insect pests 8697, 9760  
rape, *Lipaphis erysimi* 1592, 9910  
sarson

Aphididae 3587  
*Lipaphis erysimi* 1502

sorghum, *Helicoverpa armigera* 5432  
soyabeans

insecticide residues 6531

*Melanagromyza sojae* 9749

vegetables, insecticide residues 8616  
*Vigna radiata*, insect pests 11786

**Gujarat**

*Amrasca biguttula* 11339

bananas, *Stephanitis typicus* 11889

cabbages, *Lipaphis erysimi* 5498

*Capsicum annuum*, *Scirtothrips dorsalis* 9818

cereals, *Aiolopus thalassinus tamulus* 5409

coconuts, *Opisina arenosella* 5576, 11927

cotton, *Earias vittella* 5615  
crops, *Helicoverpa armigera* 11778

dates

orchards, *Chilocorus nigrita* 1579

*Parlatoria blanchardii* 1579

groundnuts, *Tenebrionidae* 11940

*Helicoverpa armigera* 1327

Hemiptera, natural enemies 7858

*Holotrichia*, predators 4029

limes, *Phyllocnistis citrella* 6677

okras

*Earias vittella* 8748

Hemiptera 5516

pigeon peas

insect pests 9762, 11784

*Maconellicoccus hirsutus* 2496

pomegranates, *Scirtothrips dorsalis* 11907

rice, insect pests 1454

sapodillas

Lepidoptera 5563

*Nephoterix eugraphella* 11981

sugarcane

*Aleurolobus barodensis* 11944

Pyrilidae 3591

*Pyrilla perpusilla* 3592, 11943

wheat, *Mythimna separata* 5408

**Haryana**

aubergines, *Amrasca biguttula* 7795

barley, *Rhopalosiphum maidis* 9691

Brassica

*Lipaphis erysimi* 1590

*Plutella xylostella* 8729

chickpeas, *Helicoverpa armigera*

5464-5465

cotton, *Pectinophora gossypiella* 6738

Indian mustard, *Lipaphis erysimi*

6592

onions, *Thrips tabaci* 2521

oranges, *Diaphorina citri* 8783

pigeon peas, *Melanagromyza obtusa* 7744

rice, insect pests 5436

sesame, *Antigastra catalaunalis* 6716

sugarcane

insect pests 11951

*Polyocha depressella* 6723

Pyrilidae 1616

*Pyrilla perpusilla* 5587

wheat, *Isoptera* 7666

**Himachal Pradesh**

*Agrotis ipsilon* 2398

Aphidoidea 3891

*Apis* 7585

*Apis mellifera*, ectoparasites 1202

apples

orchards, pollinators 6645

*Panonychus ulmi* 1541

aubergines

*Epilachna vigintioctopunctata* 9816

fields, Hymenoptera 9816

Brassica

insect pests 2602

*Lipaphis erysimi* 2590

cabbages, insect pests 4513

**India cont.****Himachal Pradesh cont.**

cauliflowers

insecticide residues 618

*Pieris brassicae* 618

food plants, *Sitobion rosaeiformis* 11245

forest trees, *Idiocerus* 6980

*Hyoscyamus muticus*, *Myzus persicae* 8955

*Mentha arvensis*, *Aphis affinis* 8955

peas, *Sitona macularius* 2493

pigeon peas, *Melanagromyza obtusa*

9761, 11782

*Plutella xylostella* 7236

*Polygonum glabrum*, *Hypolixus truncatulus* 4785

*Populus ciliata*, *Gibberifera simplicata*

6759

potatoes

*Holotrichia* 11792

insecticide residues 597

*Phthorimaea operculella* 3510

rice, *Phyllopertha horticola* 2448

tomatoes, *Helicoverpa armigera* 1520

*Trifolium alexandrinum*, *Noctuidae*

8684

**Indian Punjab**

*Barioscopus cordiae*, parasitoids 2731

Brassica, *Lipaphis erysimi* 8728

cauliflowers, *Hellula undalis* 9795

cotton

Lepidoptera 713, 1634

*Pectinophora gossypiella* 3622

crops, *Brevipalpus* 10084

grain legumes, *Helicoverpa armigera*

3489

human milk, insecticide residues

6350

maize, *Zyginidia manaliensis* 5426

oilseed plants, habitats, *Oxyopes* 9909

okras, *Amrasca biguttula biguttula*

5514

peas, *Ophiomyia phaseoli* 11776

radishes, *Lipaphis erysimi* 5485

sugarcane

*Chilo infuscatellus* 11948

*Scirpophaga excerptalis* 8815

*Tecomella undulata*, *Patialus*

*tecomella* 3668

*Vigna radiata*, *Thysanoptera* 8700

wheat

commodities, *Coleoptera* 6868

*Maladera* 9673

*Rhopalosiphum rufiabdominalis*

7665

**Jammu and Kashmir**

*Thrips* 1407

tomatoes, insect pests 6601

**Karnataka**

*Aristolochia indica*, *Atrophaneura*

*aristolochiae* 1201

asparagus, *Araecerus fasciculatus*

11820

*Bombyx mori* 7375-7376, 9469

*Callosobruchus maculatus* 1766

Carabidae 7008

cardamoms, *Sciothrips cardamomi*

7988-7989

cashews, *Helopeltis antonii* 1587,

4615

coconuts, *Opisina arenosella* 9917

coffee, *Lemyra* 700

cotton

*Bemisia tabaci* 4651

*Helicoverpa armigera* 4652

insect pests 4650

*Exorista bombycis* 6272

food plants, *Zygogramma bicolorata*

1748

fruits, *Bactrocera caryae* 9882

groundnuts, *Aphis craccivora* 690

*Jasminum auriculatum*, *Aceria jasmini*

1736

*Lantana camara*, habitats,

*Stethoconus praefectus* 11446

Lepidoptera 9471

*Paraserianthes falcataria*, insect pests

2679

*Parthenium hysterophorus* 5715

natural enemies 6045

**India cont.****Karnataka cont.**

*Parthenium hysterophorus* cont.

*Zygogramma bicolorata* 8001

*Phthorimaea operculella* 7227

pigeon peas, *Helicoverpa armigera*

7743

pomegranates, Homoptera, natural

enemies 9903

potatoes

fields, beneficial arthropods 1493

*Phthorimaea operculella* 4485

*Spodoptera litura* 1493

rice

Hemiptera 1453

*Nilaparvata lugens* 3459

*Scirpophaga incertulas* 10735

*Santalum album*

*Amata passalis* 751

habitats, parasitoids 751

sapodillas, *Anarsia achrasella* 1581

*Scaphodhara* 6979

sorghum

*Atherigona soccata* 3446

*Calocoris angustatus* 4430

*Contarinia sorghicola* 3450

*Stegodyphus sarasinorum* 4922

*Tamarindus indica*, *Caryedon ser-*

*ratus* 2680

*Tectona grandis*, *Cossus cadambae*

2678

*Teleonomia scrupulosa*, predators

11446

tobacco, *Myzus persicae* 5599

**Kerala**

cashews, *Anigraea albomaculata*

1588

coconuts

*Leucopholis coneophora* 4625

*Opisina arenosella* 1600

plantations, parasitoids 1600

*Ficus*, pollinators 9097

*Ficus hispida*, pollinators 10364

*Litsea*, *Aleuroclava multiuberculata*

21

mulberries, *Oberea artocarpi* 9880

oil palms, *Oryctes rhinoceros* 3581

*Paraserianthes falcataria*, insect pests

2679

pigeon peas

fields, Hymenoptera 11780

*Melanagromyza obtusa* 11780

*Piper nigrum*, *Cydia hemidoxa* 810,

8962

rice, insect pests 3478

*Scaphodhara* 6979

spices, insect pests 1734

sweet potatoes, *Cylas formicarius*

3511, 11802

tea, *Calacarus carinatus* 7882

*Tectona*, *Cossus cadambae* 2672

**Madhya Pradesh**

*Acacia nilotica*, *Hypolixus truncatulus*

6773

*Ailanthus*

*Attea fabriciella* 2673

forests, beneficial insects 2673

*Antheraea mylitta* 8400

Indian mustard, *Lipaphis erysimi*

5497, 5698

*Jatropha curcas*, *Spodoptera litura*

724

mandarins, *Aleurocanthus woglumi*

11894

*Papaver somniferum*

fields, beneficial insects 8828

*Myzus persicae* 8828, 8956

rice

*Mythimna separata* 2467

*Orseolia oryzae* 9736



## India cont.

## Maharashtra

- Antheraea mylitta* 8400  
cabbages, insect pests 11815  
cashews, *Helopeltis antonii* 5569  
chickpeas  
commodities, *Callosobruchus* 4804  
*Helicoverpa armigera* 10772  
cotton  
*Aphis gossypii* 3613  
arthropod pests 8838  
*Bemisia tabaci* 11972  
*Helicoverpa armigera* 8835  
insect pests 8837  
Lepidoptera 8834, 8836  
Noctuidae 11971  
pest control 2623  
crops, Scarabaeidae 1408  
*Diaglyptidea* 11093  
field crops, *Leucopholis lepidophora* 3015  
fields, habitats, beneficial insects 5153  
groundnuts  
*Aproaerema modicella* 11938  
fields, Hymenoptera 11938  
insect pests 3584  
pest control 6712, 8809  
mandarins, *Aleurocanthus woglumi* 5557  
okras, insecticide residues 8749  
onions, *Thrips tabaci* 2520  
*Phyllocnistis citrella* 6681  
pigeon peas  
*Exelastis atomosa* 5820, 11779  
fields, *Cotesia meghrangini* 5820  
insect pests 9764  
potatoes, *Phthorimaea operculella* 3503, 11793  
rice, *Orseolia oryzae* 3465  
safflower  
Aphididae 10724  
insect pests 12047  
*Uroleucon carthami* 3580  
*Uroleucon sonchi* 11925  
sorghum  
*Atherigona succata* 10724  
*Chilo partellus* 6475  
Delphacidae 5430  
Homoptera 5429  
insect pests 7689  
*Stenodiplosis sorghicola* 8655, 11736  
soyabeans, *Melanagromyza sojae* 11769  
sugarcane  
*Aleurolobus barodensis* 1613  
*Leucopholis lepidophora* 694  
*Pyrilla perpusilla* 5587  
sweet potatoes, *Cylas formicarius* 5481, 11804  
*Terminalia, Aleuroclava terminaliae* 21

## Manipur

- cabbages, *Pieris brassicae* 8726  
cucumbers, *Aphis gossypii* 7798  
potatoes, *Myzus persicae* 2502  
Thysanoptera 10312

## Meghalaya

- field crops, insect pests 5263  
rice, insect pests 6480  
soil, insecticide residues 6480

## Orissa

- aubergines, *Leucinodes orbonalis* 10827  
chickpeas, *Helicoverpa armigera* 1483  
*Drosophila melanogaster* 2962  
field crops, *Helicoverpa armigera* 4660  
fields, parasitoids 4660  
*Lablab purpureus*, *Aphis craccivora* 1490  
*Nisaga simplex*, natural enemies 11745  
pigeon peas  
*Helicoverpa armigera* 10773  
insecticide residues 593  
rice  
arthropods 9722

## India cont.

## Orissa cont.

## rice cont.

- Hemiptera 9732  
*Orseolia oryzae* 2443  
parasitoids 5440  
sesame, *Antigastra catalaunalis* 7874  
tomatoes, *Helicoverpa armigera* 2533  
toria, *Lipaphis erysimi* 9796

## Rajasthan

- Acacia tortilis*, *Bruchidius andrewesi* 8861  
birds, insecticide residues 5323  
Citrus, *Eutetranychus orientalis* 9883  
cucurbit vegetables, *Bactrocera cucurbitae* 6618  
*Eremotermes paradoxalis*, predators 11465  
fields, habitats, *Camponotus compressus* 11465  
groundnuts, *Holotrichia* 685  
guar, *Amsacta moorei* 9772  
melons, *Aulacophora foveicollis* 9820  
*Pennisetum americanum*, *Atherigona succata* 10726  
pigeon peas, insect pests 11781, 11783  
*Prosopis cineraria*  
insect pests 750  
insects 3649  
*Ziziphus mauritiana*, *Larvacarus trinitans* 3564

Sikkim, cardamoms, *Artoria chorista* 1735

## Tamil Nadu

- Acrididae 3088  
agricultural products, insecticide residues 5752  
*Ailanthus*  
*Atteva fabriaciella* 2673  
forests, beneficial insects 2673  
arthropods 1186  
Carabidae 7008  
cashews, *Orthaga exvinacea* 10894  
*Catopsilia pomona* form *crocale*, natural enemies 4762  
chrysanthemums, pollinators 8935  
coconuts  
Coleoptera 3582  
*Oryctes rhinoceros* 3583  
plantations, beneficial insects 3582  
*Turnaca acuta* 11928  
coffee, *Hypothenemus hampei* 3602  
cotton  
*Bucculatrix loxoptila* 3611  
fields, *Coranus nodulosus* 10915  
Lepidoptera 3612  
crops, insect pests 11553  
*Ficus benghalensis*, *Trioxa yelagiriensis* 10094  
field crops  
*Helicoverpa armigera* 5609, 10557  
Noctuidae 2404  
food plants  
Acrididae 6143  
*Aleuroclava* 21  
*Zygogramma bicolorata* 1748  
forests, *Odontotermes brunneus* 727  
fruits, *Bactrocera carayae* 9882  
grain legumes, commodities, pest control 5752  
groundnuts  
*Amsacta albistriga* 5580  
*Aproaerema modicella* 3585, 11935  
*Caliothrips indicus* 7873  
insect pests 11939  
*Jasminum auriculatum*, *Planococcus lilacinus* 3666  
*Jasminum sambac*, *Contarinia* 3665  
*Moringa oleifera*, insect pests 2542  
*Paraserianthes falcataria*, insect pests 2679  
*Phthorimaea operculella* 7227  
potatoes, insecticide residues 598  
*Pterocarpus marsupium*, *Arytaina marsupiae* 10094

## India cont.

## Tamil Nadu cont.

## rice

- commodities, *Rhyzopertha dominica* 8021  
*Stenchaetothrips biformis* 2459  
*Rosa*, *Trialeurodes vaporariorum* 7968  
spices, commodities, pest control 5752  
sugarcane  
*Aleurolobus barodensis* 1614, 3596  
*Chilo sacchariphagus indicus* 3595  
insect pests 2222  
sunflowers, *Bemisia tabaci* 7863  
sweet potatoes, *Cylas formicarius* 3512  
tea  
*Acaphylla theae* 3132  
arthropod pests 3597  
*Euwallacea formicatus* 10909  
tobacco, *Spodoptera litura* 3609  
trees, insect pests 5779-5780  
*Vigna mungo*, *Madurasia obscura* 6890  
wildlife, insecticide residues 2347  
Uttar Pradesh  
*Aegle marmelos*, insect pests 9662  
*Ailanthus*  
*Atteva fabriaciella* 2673  
forests, beneficial insects 2673  
aubergines, insect pests 8744  
*Bombyx mori* 8195  
cocoon, *Trogoderma halsteadii* 4791

## Brassica

- Lipaphis erysimi*, predators 5489  
*Plutella xylostella* 8729

## broadleaves

- Acari 10950  
*Hypsipyla robusta* 1676  
chickpeas  
*Agrotis ipsilon* 3500  
*Helicoverpa armigera* 1484  
crops, insect pests 11709  
*Eucalyptus tereticornis* 2661  
fatty oil plants, pest control 3572  
field crops, *Spodoptera litura* 6406  
forests  
arthropods 3625  
Isoptera 726  
groundnuts, *Spodoptera litura* 1605  
groundwater, insecticide residues 8583, 10652  
guavas  
*Deudorix isocrates* 11913  
*Greenidea ficicola*, parasitoids 10886

## guavas

- Lagenaria siceraria*, Hemiptera 6615  
mangoes, *Cisaberoptus kenya* 9895  
mulberries, insect pests 9662  
okras, insecticide residues 5512  
peaches, *Myzus persicae* 2892  
peas, insect pests 1480  
*Populus ciliata*, *Epipemphigus marginalis* 23  
potatoes, *Holotrichia longipennis* 3504

## rice

- Cnaphalocrocis medinalis* 9723  
Hemiptera 9718

## rivers

- insecticide residues 10652  
pesticide residues 4329  
sesame, *Antigastra catalaunalis* 11942  
*Sesamum*, *Antigastra catalaunalis* 6717  
soyabeans, *Anomala dimidiata* 4471  
sugarcane  
*Chilo* 695  
insect pests 8813  
insecticide residues 11946  
Lepidoptera 5586  
*Mahasena graminivora* 10905  
*Melanaspis glomerata* 10906  
*Pyrilla perpusilla* 6722  
*Syzygium cumini*, insect pests 9662  
Thysanoptera 1814



**India cont.****Uttar Pradesh cont.**

*Vigna mungo*, *Riptortus pedestris* 10778

*Vigna radiata*, insect pests 10780

wheat, Isoptera 8813

*Ziziphus mauritiana*, *Eriophyes cernuus* 3567

**West Bengal**

*Antheraea mylitta* 8400

aubergines, insect pests 9817

cardamoms, *Artana chorista* 1735

*Exorista bombycis* 6272

jute, arthropod pests 5619

*Litchi chinensis*, *Dudua aprobola* 5559

mangoes, arthropod pests 5558

mulberries, Thripidae 9860

*Nephotettix* 8291

potatoes, *Epilachna viginti-octopunctata* 5476

**rice**

*Melanitis leda* 3461

Noctuidae 5442

soil fauna 9376

sugarcane, *Abacarus sacchari* 5584

**tea**

arthropod pests 5593

*Helopeltis theivora* 5592

**Indian mustard (Brassica juncea)**

*Brevicoryne brassicae* 5501

Pakistan 1609

resistance 9805

insect pests, Himachal Pradesh 2602

insecticides, residues 680

*Lipaphis erysimi* 6590

Haryana 1590, 6592

Himachal Pradesh 2590

India 8723, 10802

Indian Punjab 8728

Madhya Pradesh 5497, 5698

resistance 2590, 6592, 8728

yield losses 10802

*Mamestra configurata* 7772

*Myzus persicae* 7774

*Phyllotreta cruciferae*

Manitoba 4390

resistance 4390

*Plutella xylostella*, China 3420

**Indian Ocean Islands**

*Bothrometopus* 8091

*Ectemnorhinus* group 5075

**Indicator species**

Araneae 3019, 10630

arthropods, air pollutants 10580

Coleoptera 7281

Gastropoda, heavy metals 8405

**Indochina, rice, Nilaparvata lugens 7705****Indolyl glucosinolates, effects, Mamestra**

*configurata* 7772

**Indonesia**

Coccinellidae 9116

*Amblyopone reclinata* group 7218

*Blastophaga* 10103

coffee, *Ceropria kerleyi* 10108

*Daemonorops hystrix*, *Macrochirus praetor* 2736-2737

*Deilagaon chrysolepidis* 3047

*Eucalyptus*, *Helopeltis antonii* 1662

*Ficus*, pollinators 5700

galls, arthropods 3306-3307

grain legumes, *Bemisia tabaci* 6529

Hydrophilidae 5783

insects 11445

*Isotomiella* 7294

*Leucaena diversifolia*, *Heteropsylla cubana* 2676

*Leucaena leucocephala*, *Heteropsylla cubana* 1654

Loranthaceae, *Tuberaphis takenouchii* 4832

*Melanagromyza sojae*, parasitoids 10101

*Morus*, *Maconellicoccus hirsutus* 2567

oil palms, *Setothosea asigna* 7866

*Pachycondyla* 2084

pesticides, usage 5290, 9794

*Rhantus* 1820

**rice**

integrated pest management 577

*Nilaparvata lugens*, natural enemies 6482

**Indonesia cont.****rice cont.**

*Scirpophaga incertulas*, natural enemies 5441

shallots, pest control 9794

*Styrax paralleloneura*, *Astegopteryx roepkei* 10956

*Styrax serrulata*, *Tuberaphis leeuweni* 10111

sugarcane, Pyralidae 6724

tea, *Brevipalpus phenicis* 9934

Tephritidae 7291

**vegetables**

integrated pest management 5265

pest control 5290

**Industrial crops, Holotrichia parallela,**

Sichuan 9342

**Information systems, crops, pests, damage,**

Germany 11393

**Inga, Formicidae, interactions 8353****Inopus rubriceps****biology**

migration 9924

pupation 9923

control, biological control 1611

sugarcane 9924

Australia 9923

Queensland 1611

**Insect control, books 877****Insect growth regulators****control**

stone fruits, insect pests 7823

stored products pests 8016

effects, aquatic organisms 10586

mode of action 2273

nontarget effects, predatory mites 9839

pest control, reviews 11565

**Insect pests**

*Abies alba*, Poland 4742

*Acremonium*, interactions, reviews 5267

Africa 5294, 10488

biochemistry, immune response 145

buildings 1760

cereals, resistance 1414

control 3299

biological control 531, 8113, 9484

chemical control 10471

cultural control 532

**crops**

resistance 1288, 5267

Uttar Pradesh 11709

**ecology**

ecosystems 5082

population dynamics 1645, 7804, 7959, 11908

**forest trees**

Poland 1645

Zimbabwe 1785

**fruits 9403****insecticides**

resistance 9581

detection 9399

monitoring 5294

toxicity 11570

maize, Tanzania 1435

migration 861

monitoring, traps 1297

parasitoids 11420

pathogens 379, 5228

*Picea abies*, Norway 7959

plant extracts, effects 5695

plants, interactions, reviews 5270

sampling 10495-10496

sugarbeet, resistance 9930

taxonomy, conferences 6919

West Africa 10484-10485

wheat, New Zealand 1787

**Insect viruses (see also individual types of****viruses)**

*Ascovirus* 6462

Baculoviridae 330, 1679, 2052, 2054,

2080, 2171, 2180, 3581, 4162,

4174, 4906, 4925, 5212, 5237,

6324, 7095, 7128, 7446, 7467,

7755, 8038, 8453, 9033, 9476,

10071, 10221, 11533-11534

*Baculovirus* 1259, 2430, 2637, 3137,

5991, 9952, 10437, 10468, 11478,

11524

*Baculovirus heliothis* 4183

*Baculovirus spodoptera* 8451

**Insect viruses cont.**

cytoplasmic polyhedrosis viruses 1935,

4156, 4657, 8435, 8445, 11476

densovirus 11501

Entomopoxvirinae 1264, 4199, 4213,

5208, 7884, 8435, 8442, 9464,

9499, 10439, 11483

*Entomopoxvirus* 330, 2173, 7329

granulosis viruses 246, 2175, 3260, 4138,

4146, 4148, 4155, 4171, 4186,

4205, 5208, 6457, 7431, 7438-7441,

7776, 8756, 9498, 9526, 10358,

10444, 11851

iridescent viruses 5216, 8438

Iridoviridae 2159, 7384, 8434, 10408

Myoviridae 3281

nuclear polyhedrosis viruses 269, 359,

365, 374, 391, 710, 1248, 1253,

1255-1256, 1267, 1270, 1443, 1469,

1484, 1671, 2163, 2165, 2168,

2170, 2174-2176, 2184, 2191, 2404,

2985, 3260, 3411, 3609, 3829,

4142-4143, 4148, 4150, 4155, 4167,

4169-4170, 4173, 4177, 4186, 4198,

4201, 4469, 4662, 4679, 5005,

5208, 5214, 5220, 5224, 5227,

5230, 5233, 5236, 5241-5242,

5245-5246, 5251, 5594, 5625,

6230-6231, 6233, 6238, 6241, 6244,

6249, 6252-6253, 6255, 6260, 6457,

6462, 7128, 7443-7445, 7451, 7455,

7457, 7460, 7462, 7465, 7638,

7892, 7914, 8408, 8421, 8423-8426,

8429-8430, 8435, 8439, 8444-8445,

8555, 9227, 9236, 9391, 9441,

9468, 9473, 9483, 9485-9489, 9505,

9507, 9509, 9511, 9529, 9552,

10008, 10405, 10409-10410, 10412,

10416, 10424, 10426-10427, 10437,

10942, 11481-11482, 11487, 11492-

11493, 11496, 11499, 11512,

11523-11524, 11767

Picornaviridae 2177, 4151, 10434

Polydnaviridae 171, 324, 1003, 4945,

5215, 6232, 7337

*Polydnavirus* 5217

Reoviridae 4168, 4174, 5221

*Rhabdovirus oryctes* 1599

Rhabdoviridae 11486

*Sigmavirus* 11486

Tetraviridae 10411

tomato spotted wilt tospovirus 11516

Totiviridae 10434

*Bacillus thuringiensis*, effects 10437

biological control agents 5228

control, forest pests 5238, 7901

detection 2176

genetic engineering 7445

reviews 9491

**hosts**

Aphididae 542

*Atteva fabriciella* 2673

*Drosophila melanogaster* 9494

insect pests 8860

Lepidoptera 7397

*Pteroninon laufella* 1598

*Sesamia cretica* 7442

nuclear polyhedrosis viruses 373

pest control 2214, 10468

structure 2193

**Insecticidal plants**



**Insecticidal properties cont.**

- Capsicum annuum* 8999
- Chrysanthemum balsamita* 2733
- Clerodendrum inerme*, extracts 6826
- Cnicus benedictus* 2733
- Elymus repens* 2733
- Equisetum* 2733
- Fabaceae 5581
- frogs, toxins 8472
- Galanthus nivalis*, extracts 5269
- imidacloprid 3331
- Lauraceae 803-804
- Melia azedarach* 6831
- Millettia laurentii*, extracts 806
- Nicotiana glauca*, extracts 10019
- Persea indica*, extracts 6824
- Physalis peruviana*, extracts 5372
- phytoalexins 6311
- plant extracts 807, 8952, 8958, 8960
- Plumbago*, extracts 1719
- pyroles 5279
- Rhynchosia penicillata*, extracts 6827
- Ricnocarpos dendron polystachyum* 6487
- rotenone 6316
- Satureja gilliesii*, extracts 5381
- Scenedesmus acutus*, extracts 8959
- Silybium marianum* 2733
- soyabeans, extracts 6530
- Streptomyces griseus* 6223
- Tanacetum cinerariifolium* 260
- Tetradenia riparia*, extracts 4479
- Tetradium daniellii*, extracts 1720
- Tetrapleura tetraaptera* 608
- Teucrium* 2735

**Insecticide resistance**

- Adoxophyes orana* 10847
- Aleyrodidae 9956
- Anaphes iole* 3222
- Anisopteromalus calandrae* 4114
- Anthonomus grandis* 398, 9958
- Aonidiella* 4590, 9890
- Aonidiella aurantii* 6680
- Aphididae 7543, 7552, 8498
- Aphis gossypii* 1320, 8507, 10550-10552, 10914
- Aphis helianthi* 3520
- Aphytis* 7578
- Aphytis melinus* 5334, 7816
- Apis* 7585
- arthropods 6111
- Azotobacter chroococcum* 4278
- Bemisia tabaci* 3335, 4217-4218, 4263, 5616, 6323, 9561, 10833, 11587
- beneficial insects, models 9577
- bioassays 2401, 5110-5111
- Bracon hebetor* 9613
- Cacopsylla pyri* 4252
- Cacopsylla pyricola* 4262
- Chilo suppressalis* 5295, 5300
- Choristoneura fumiferana* 9568
- Chrysodeixis includens* 588, 7731
- Cnaphalocrocis medinalis* 10730
- Coleoptera 10210
- cotton, insect pests 2625
- Cryptolestes ferrugineus* 5753
- Cydia pomonella* 6646, 10841
- Delphacidae 1001
- Diglyphus begini* 9576
- Drosophila* 1920, 6324, 9833
- analysis 1920
- Drosophila melanogaster* 258, 1943, 3334, 5304, 8505, 11596
- Edwardsiana crataegi* 6637
- Eriosoma lanigerum* 8764
- Eumeta variegata* 10541
- Frankliniella occidentalis* 396, 441, 4977, 6275, 6322, 9585, 11590
- genetics, resistance mechanisms 7526
- Helicoverpa armigera* 412, 1327, 2275, 4245, 5110, 5302, 5601, 5609, 6317, 6455, 6733, 9559, 10536, 10538, 10542-10543, 10546, 10557, 10682, 11970
- Heliothis virescens* 716, 2627, 4256, 4264, 4979, 5111, 5296, 8506, 9402, 9404, 9584, 10555-10556, 11966
- Helopeltis theivora* 3607
- Hemiptera 7945
- Homona magnanima* 11579
- Homoptera 9026

**Insecticide resistance cont.**

- Hypothenemus hampei* 258, 397, 5293, 9583
  - insect pests 6282, 9581, 10608
  - detection 9399
  - monitoring 5294
  - insects, knockdown 8494
  - Laodelphax striatella* 8178
  - Lasioderma serricorne* 8019
  - Lepidoptera 6339
  - Leptinotarsa decemlineata* 440, 1328, 1333, 4261, 6325, 6552, 7756, 8495, 9223, 9567, 10547
  - models 4269
  - Liposcelis bostrychophilus* 8020
  - Liriomyza huidobrensis* 11816
  - Liriomyza trifolii* 10563-10564
  - Lissorhoptrus oryzophilus* 6340
  - Lygus hesperus* 6334
  - management 9593
  - Manduca sexta* 10207
  - monitoring 10555
  - Myzus* 3341, 4976
  - Myzus nicotianae* 4647, 6321
  - Myzus persicae* 3140, 5608, 7769, 9238, 11263, 11575
  - Neoseiulus longispinosus* 449
  - Nephotettix cincticeps* 437, 7539
  - Nilaparvata lugens* 3812, 4436
  - Noctuidae 9752
  - Oulema oryzae* 6341, 9562
  - testing 9387
  - parasitoids 9440
  - Pectinophora gossypiella* 8502
  - Phyllonorycter elmaella 7548-7549
  - Phyllotreta cruciferae* 6338
  - Platynota idaeusalis* 6635, 7819
  - Plodia interpunctella* 4206, 9613
  - Plutella xylostella* 447, 1276, 4514, 5222, 5299, 5495, 5948, 6248, 6336, 6345, 6394, 8504, 8725, 9510, 9553, 9582, 9650, 10206, 10539, 10548, 10558, 11577, 11588, 11592, 11594
  - reviews 4257, 5288, 9566, 9591
  - Rhyzopertha dominica* 9556
  - Schizaphis graminum* 453, 1427, 4978, 7544, 7546-7547
  - Scirtothrips dorsalis* 7550
  - Scrobipalopsis solanivora*, parasitoids 602
  - Sitophilus zeamais* 1329, 8515
  - Sogatella furcifera* 4437
  - Spodoptera exigua* 4260, 6327, 11582
  - Spodoptera frugiperda* 5298
  - Spodoptera littoralis* 8512
  - Spodoptera litura* 10553
  - Thrips palmi* 10562
  - Trialeurodes vaporariorum* 11829
  - Tribolium castaneum* 432, 2280, 4255, 9239, 11585
  - Xylocoris flavipes* 11419
- Insecticides**
- absorption, models 10509
  - adjuvants 10504
  - air pollution, Czech Republic 7607
  - analysis 2046
  - analytical methods 2060
  - application 421, 4215, 6130, 6133, 9408
  - aerial application 9409
  - calibration 6129
  - containers 424
  - fogging 11874
  - helicopters 8325
  - safety 2260, 2267, 7494
  - sprays 3560-3561, 4547, 5119, 5436, 5485, 5514
  - surfactants 429
  - testing 3162
  - trees 10865
  - assessment, sprays 7299
  - bioassays 10019
  - books 6930
  - cell culture 6128
  - chemical composition, analysis 2254
  - chemistry 7515, 10343
  - development 6308-6309
  - control
    - Anthonomus grandis*, cotton 5613
    - Aphis gossypii* 11833
    - Bemisia tabaci*, tomatoes 10825

**Insecticides cont.**

- control cont.
- Cylas formicarius*, sweet potatoes 5481
- Hoplocampa testudinea* 11855
- insect pests 10684
- groundnuts 6714
- Phaseolus vulgaris* 8695
- tea 2615
- tomatoes 10823
- Lepidoptera, cotton 5610
- Liriomyza huidobrensis*, celery 11816
- Lobesia botrana*, grapes 9875
- Lymantria*, chestnuts 7861
- Myzus persicae*, peaches 9850
- Paranthrene tabaniformis*, *Populus* 10946
- pests, crops 3723
- Phthorimaea operculella*, potatoes, commodities 12074
- Phyllonorycter ringoniella*, apples 9830
- Spilarcia obliqua*, sunflowers 7865
- Tortricidae, grapes 9876
- degradation
  - environment 2377
  - microorganisms, reviews 4233
  - reviews 1311
  - soil 1375, 2372, 5365
- deposition, *Schistocerca gregaria* 8483
- detection 2062, 10597
- development, reviews 6348
- directories 4815, 6929, 11559
- drinking water, removal 2378
- effects
  - Acyrtosiphon pisum* 11566
  - animals 90
  - birds 451, 7564
  - carp 7560
  - cassava 608
  - cyanobacteria 9621
  - environment, reviews 10662
  - Homoptera, bioassays 10352
  - Leptomastix dactylopii* 5340
  - man 1684, 7574
  - Phorodon humuli* 6835
  - Quercus leucotrichophora* 2665
  - Scrobipalpus absoluta* 10822
  - soil enzymes, reviews 9639
  - Tribolium castaneum* 1324
- environmental impact 2370
- models 506
- reviews 6384
- enzymes, interactions 6295
- exposure, man 5350
- formulations 420, 426, 608, 875, 2268, 3362, 5611, 6294, 10528
- hydrolysis 6299
- interactions
  - adjuvants 9552
  - surfactants 9592
- labelling, Cameroon 6300
- legislation 1386, 2822
- Costa Rica 422
- Europe 2245
- European Communities 425, 2241-2246
- Germany 7525
- Netherlands 2243
- nomenclature 428
- Poland 2247
- Spain 7523
- UK 2242
- USA 1384, 6929
- losses, soil, assessment 10664
- mixtures 8489
- application 8348
- assessment 7524
- control, *Tipula*, barley 8640
- interactions, models 8459
- mode of action, models 8458
- models 10500
- toxicity
  - aquatic organisms 5319
  - rodents, testing 8568
- mode of action 2273
- books 12093
- mycoherbicides, interactions 6378
- nontarget effects
  - aquatic organisms 2301
  - beneficial arthropods 11550



**Insecticides cont.**

- nontarget effects cont.
  - beneficial arthropods cont.
    - assessment 4282
  - beneficial insects 11456
  - bioassays 6372
  - books 2823
  - Colinus virginianus* 11627
  - domestic animals 3384
  - Encarsia formosa*, assessment 4093
  - environment 10665, 11669-11670
  - fowls 9627
  - Hymenoptera 8660
  - Macrolophus caliginosus* 8378
  - man 482, 3370
  - Phytoseiidae 9831
  - plants, assessment 5101
  - predatory arthropods 5494
  - Stethorus punctillum* 11444
  - Syrphidae 2111
  - vertebrates, assessment 4283
- poisoning, man 1363, 8544
- protective clothing, testing 3159
- purity, chromatography 272
- registration
  - Canada 5101
  - Italy 1305, 3313
- residues
  - agricultural products, analysis 4807
  - air 8582
  - analysis 3315
  - birds 11624
  - cattle 3388
  - crops 2325
  - determination 468, 5346
  - drinking water 2374-2375, 2378
  - environment 2371, 7608, 10064, 10664
  - analysis 3396
  - ewe milk 7555
  - feeds 9617
  - foods 2321, 6904, 9618, 10631
  - groundwater 2369, 6385, 6387, 9638, 9640
  - books 6931
  - man 7602
  - models, conferences 2813
  - marine environment 2354
  - meat, determination 4793
  - milk 8516
  - determination 442
  - plant products 2266
  - residential areas, monitoring 255
  - rice, fields 1459
  - soil 2266, 9644
  - vegetables, extraction 3513
  - water 2380, 6392, 7620, 9647
  - wines 12073
- resistance
  - bioassays 3140
  - detection 258
  - estimation 6111
  - Leptinotarsa decemlineata* 1328
  - monitoring 9404
  - Nilaparvata lugens* 5301
- risk, legislation, USA 405
- safety
  - legislation 423
  - man 2081, 7556
  - models 4304
- sensors 6132
- soil, extraction 9410
- spray booms 3157
- sprayers 273, 2063-2064, 2067-2068, 3158, 6131, 6135-6139, 7323
- models 3166
- sprays
  - deposition, insects 8483
  - drift 2228
  - simulation 6312
- structure activity relationships, computer techniques 10342
- synthesis 3333, 3340, 5291, 6335, 7540
- sesquiterpenoids 3679
- toxicity 6295
  - analysis 9403
  - Apoidea 1362
  - cyanobacteria 2312
  - lungs 478
  - man 2315, 2320
  - Rana limnocharis* 2308

**Insecticides cont.**

- UK, reports 862
- uptake, plants 6310, 9552, 10565
- USA, books 894
- usage 6916
  - Argentina 3298
  - Asia 7702
  - Bangladesh 6344
  - Canada, reports 8030
  - Developing Countries 2269
  - Europe 2269
  - Germany 1549, 10508
  - Poland 6347
  - regulation 2373
  - Sweden 2227, 6306
  - Turkey 1317
  - USA 3623, 4757
  - wheat 8628
- volatilization, soil 9648
- water, removal, reports 2805
- world markets, reviews 6307

**Insects**

- Abies alba*, Poland 4742
- Ajuga*, Hungary 10998
- antifeedants 885
- bibliographies 11061
- biochemistry
  - antibacterial peptides 8169
  - antioxidants 9151, 9216
  - enzymes 9150
  - catecholamines 2906
  - cuticle, proteins 5944
  - environmental factors 9149
  - enzymes 9162
  - reviews 7044
  - haemolymph 5892
  - lipophorin 8133
  - muscles 7072
  - neurotransmitters, reviews 9189
  - proteins 94, 9199, 11228
  - senses 3841
  - terpenoids 1917
  - toxicology 10074
- biology 5023
  - behaviour 7179, 7220
  - models 5055
  - reviews 10247
  - dispersal 3928
  - environmental factors 6022, 9315
  - books 10072
  - feeding, books 12091
  - flight, analysis 10349
  - life cycle, books 12094
  - migration 1097
  - reviews 6063
  - molecular biology, books 6911
  - periodicity, reviews 7172
  - reproduction 11518
- books 9039
- cell lines, pathogens 6324
- cells, phagocytosis, *Paecilomyces farinosus* 9480
- chemical ecology, books 10069
- collections 2853, 3765, 6974
- conservation, reviews 3917
- control
  - Acacia nilotica* 8011
  - Ambrosia* 2763
  - grasses 11027
  - Orobancha* 8008-8009
  - Sida* 2758
  - weeds 2754, 11034, 11036
  - formulations 5719
  - rangelands 11026
- Crozet Archipelago 8301
- digestive system, pH, measurement 4078
- distribution 4046
  - North America 6105
- ecology 1070, 5023, 5076, 5627, 9112
  - chemical ecology 7152
  - competition 9266
  - ecosystems 5082
  - habitats 3724, 7253
  - meteorological factors 2002
  - population dynamics 244, 2015, 3290, 3292-3293, 4742, 10287
  - models 242, 2056
  - reviews 5018
  - species diversity 196
- electrophoresis 7302

**Insects cont.**

- entomogenous fungi, host parasite relationships 7383
- evolution 52, 5826
  - phylogeny, reviews 6940
  - reviews 3981
  - wings, genetics 8099
- evolutionary ecology, reviews 7153
- feeding
  - assays 10346
  - reviews 9281
- flight, recording 10347
- forest trees, interactions, reviews 5627
- fungi, interactions 1140
- genetics
  - books 6911
  - DNA, extraction 11235
  - gene transfer 5991
  - mitochondrial DNA 11270
  - nucleotide sequences 5986
  - techniques 5976
- herbicides, interactions 11036
- immunology, venoms 11399
- insecticides
  - effects 1323, 2350
  - toxicity 9589
- lentils, fields, Turkey 1482
- monitoring
  - mark release recapture 4221
  - traps 2575
- morphology 2873
  - wings, evolution 6990
- mortality, estimation 1176
- mosses 10630
- natural enemies 148, 1176, 10245, 10287
- nature conservation, Netherlands 1111, 1119, 1788
- nomenclature 12099
- Nothofagus pumilio*, Chile 5660
- oviposition, assays 10346
- parasitoids, interactions, models 2592
- pathogens 7388, 8038, 10406, 11518
- detection 3283
- transmission 10458
- pheromones 3412, 5380
- synthesis, reviews 10338
- phylogeny 2873
- reviews 6941
- physiology
  - books 3736, 10074
  - chemical composition 4975
  - cold resistance 4911
  - defence mechanisms 4913
  - development 11172
  - digestive system 4949
  - endocrine system, reviews 133
  - fat body, reviews 7097
  - flight 5881
  - hearing 987
  - hormones 4963-4964
  - books 8042
  - immune response 7393
  - immunity, reviews 10406
  - juvenile hormones, mode of action 7052
  - Malpighian tubules, reviews 7070
  - metamorphosis 5864
  - nervous system 4955, 7078
  - neurohormones, reviews 4931
  - reproduction 177, 993
  - secretions 1888
  - vision 7079
- Pinus*, wood, New South Wales 1695
- plant extracts
  - antifeedants 8607
  - effects, reviews 10245
- plant oils, effects 3316
- plant pathogens, transmission 6848
- plants
  - extracts, effects 9544
  - interactions 10074
  - metabolites, toxicity 9570
  - UK 2397
- pollutants, effects 2006, 9331
- predators 249
- rearing techniques 6022
- models 1175
- remote sensing 2065
- reproduction, models, reviews 3058
- sampling 4223, 8333
- sap, techniques, collection 7780



**Insects** *cont.*  
semiochemicals 3982  
songs, reviews 3981  
taxonomy 9070  
    bibliographies 40  
Texas 1097  
West Africa 10486

**Insects as food**  
Acrididae 10392  
Lepidoptera 11470  
*Oxya velox* 5192  
reviews 10392  
*Rhynchophorus ferrugineus* 8882  
silkworms, pupae 4131  
*Tenebrio molitor* 7373

**Insegar** (see Fenoxycarb)

**Insulin**, effects, *Antheraea mylitta* 8475

**Integrated control** (see also Integrated pest management)  
cotton, USA 3623  
pests  
    conferences 3722  
    ornamental woody plants, books 6928  
arthropods 10477  
Acari, apples 9839  
Acrididae 276  
    models 11753  
*Aleurolobus barodensis*, sugarcane 1614  
*Anthonomus grandis*, cotton 5614  
*Aonidiella orientalis*, Citrus 3553  
Aphidoidea, tea 9936  
*Aphis craccivora*, *Phaseolus* 8462  
arthropod pests  
    almonds 6700  
    Citrus 10877  
    cotton 6734  
    fruits 2545, 6631  
    grapes 8776  
    greenhouse crops 1286  
    groundnuts 9919  
    orchards 399  
    pome fruits 5517  
    strawberries 11870  
    tomatoes 7785  
*Aulacophora indica*, melons 1582  
*Bemisia tabaci* 6175  
    greenhouse crops 4759  
    tomatoes 627  
*Biprorulus bibax*, lemons 664  
*Ceratitis capitata* 10878  
Cercopidae, *Brachiaria* 7721  
*Ceroplastes floridensis*, Citrus 7845  
*Cicadella viridis*, fruits 11840  
*Conopomorpha cramerella*, cocoa 9942  
*Cydia pomonella* 10841  
*Exorista bombycis* 5730  
*Helicoverpa armigera*, tomatoes 1521  
*Helopeltis theivora*, tea 5592  
*Icerya patersoni*, coffee 5266  
insect pests 2237, 3301-3302, 10684  
    apples 5521, 10851  
    cowpeas 8704  
    greenhouse crops 6600  
    Lotus 12035  
    millets 8658  
    olives 6709  
    potatoes 5473  
    rice 7694, 8044, 9724  
    sorghum 7686  
    tomatoes 7784, 10823  
*Ips typographus*, *Picea abies* 3660  
Lepidoptera 5264  
    cotton 11963  
    fruit trees 10839  
*Leptinotarsa decemlineata*, potatoes 4496  
*Lygus spinolae*, tea 9935  
*Myllocerinus aurolineatus*, tea 9933  
*Mythimna separata* 10476  
*Nilaparvata lugens*, rice 5266  
Noctuidae, soyabeans 9752  
*Ophiomyia*, *Phaseolus* 3499  
orchards 2547  
*Ostrinia nubilalis*, maize 9695  
*Panonychus citri*, Citrus 11890  
*Phoracantha semipunctata*, *Eucalyptus* 6814  
*Phyllonorycter ringoniella*, apples 10848

**Integrated control** *cont.*  
arthropods *cont.*  
    *Plutella xylostella*  
        Brassica 5495  
        cabbages 7768  
    *Popillia japonica* 6054  
    *Protopulvinaria pyriformis*, avocados 10890  
    raspberries 4570  
    *Rhyacionia buoliana*, *Pinus radiata* 1691  
    *Scirpophaga excerptalis*, sugarcane 4639  
    *Scirtothrips citri*, Citrus 8787  
    Scolytidae, *Picea* 12016  
    *Sesamia grisea*, sugarcane 4637  
    stored products pests 846, 9007  
    Tenebrionidae, field crops 5396  
    *Thrips tabaci*, Allium 10796  
    Tortricidae, apples 5527  
    tree fruits 1529  
    *Trialeurodes vaporariorum*  
        cucumbers 4544  
        tomatoes 11826  
    *Varroa jacobsoni* 1287  
control, Aphididae, marrows 1527  
France 1285

**Integrated pest management** (see also Integrated control; Pest management)  
apples  
    Europe, reviews 5521  
    Iowa 9844  
    North America, reviews 6641  
Asia 2229  
biotechnology 401  
books 12098  
cotton  
    Australia, reviews 5605  
    Brazil, reviews 5606  
    California 9964  
    reviews 5603  
    USA 3623  
    reviews 5604  
    USSR, reviews 5607  
    Zambia 2636  
crops, USA 6280, 6413-6414  
dairy farming, New York 10479  
development 6281  
ecology 3303  
economic thresholds 9541  
*Eucalyptus*, Bahia 739  
food safety, USA 10478  
forest trees 871  
    British Columbia 720  
fruits  
    Belgium 1534  
    Czech Republic 6630  
    Europe 1532-1533  
    Italy 641  
    Poland 2548  
greenhouse crops 1524  
groundnuts, Andhra Pradesh 2599  
horticultural crops, New York 9842  
India 9533, 10480  
linseed, China 1593  
Massachusetts 11551  
orchards, reviews 399  
ornamental woody plants, USA, books 6928  
pest resistance 1291  
    conferences 1289  
    reviews 3300  
Philippines 5264  
*Phylloxera citrella*  
    China 4584  
    reviews 4584  
pome fruits, Germany 10842  
Portugal 8460  
potatoes 600, 870, 872, 7756  
    South Australia, reports 6907  
    Tunisia 6555  
    Wisconsin 7762  
rape, Europe 4616  
raspberries, reviews 3542  
reviews 8461  
rice  
    conferences 4814  
    Indonesia 577  
    reviews 1455, 3451  
Scarabaeidae, reviews 1408  
sorghum, farmers' attitudes 4431

**Integrated pest management** *cont.*  
soyabeans, Brazil 6535  
stone fruits, Czech Republic 5532  
stored products, USA 6877  
strawberries 655  
tomatoes  
    California 7789  
    Nicaragua 636  
    Sao Paulo 8733  
    Spain 6610  
tree fruits, reviews 6629  
USA, conferences 3721  
vegetables, Indonesia 5265  
wheat, North America 6439

**Intercropping**  
effects  
    *Atherigona soccata*, natural enemies 2440  
    parasitoids 2525

**Inula crithmoides**  
*Myopites longirostris*  
galls 7273  
UK 7273

**Inula grantioides**, repellents, insects 6398

**Inula racemosa**, extracts, antifeedants, *Spodoptera litura* 6829

**Invertebrates**  
biochemistry, muscles 7072  
checklists, British Columbia 8305  
ecology, conferences 880  
*Lathyrus vernus*  
    damage 8950  
    Sweden 8950  
low input agriculture, effects 9843  
pesticides, residues 3400  
physiology, conferences 880  
symbiosis 1139

**4-Iodo-trans-2-methylcyclohexane-1-carboxylate**, pheromones, *Ceratitis capitata* 4363

**5-Iodo-trans-2-methylcyclohexane-1-carboxylate**, pheromones, *Ceratitis capitata* 4363

**Alpha-ionol**, attractants, *Bactrocera latifrons* 7507

**Ioxynil**  
phytotoxicity, wheat, seeds 11723  
toxicity, *Deroceas reticulatum* 11723

**Iphiaulax moorei**, taxonomy, synonyms, of *Atanycolus tomentosus* 5172

**Iphiaulax phoracanthae**, hosts, *Phoracantha* 5172

**Iphiaulax rubriceps**, taxonomy, synonyms, of *Syngaster lepidus* 5172

**Iphiclidus podalirius**  
biology 1545  
trees, Italy 1545

**Iphiseiodes zuluagai**, Citrus, orchards, Sao Paulo 8786

**Iphiseius degenerans**  
Kenya 2506  
prey, *Mononychellus tanajoa* 2506

**Ipobracon flaviceps flaviceps**, taxonomy, to *Callibracon* 5172

**Ipobracon flaviceps mackayensis**, taxonomy, to *Callibracon* 5172

**Ipobracon pennipes**, taxonomy, *Myosoma-toides myersi*, new name for 11131

**Ipomoea**, *Chelymorpha cribaria*, Florida 5702

**Ipomoea acuminata**, Drosophilidae, Hawaii 2723

**Ipomoea batatas** (see Sweet potatoes)

**Ipomoea parasitica**, extracts, effects, *Heliothis virescens* 10017

**Ipomoea purpurea** (see *Pharbitis purpurea*)

**Ipomoea triloba**, extracts, effects, *Ostrinia furnacalis* 12043

**Ips**  
monitoring, traps 1694  
*Pinus*, Cuba 1689  
plant pathogenic fungi, interactions 1689

**Ips acuminatus**, *Ceratocystiopsis ranaculosus*, phoresy 8296

**Ips amitinus**, quarantine, UK 2248

**Ips avulsus**  
pheromones 1694  
*Pinus palustris*, Texas 1694

**Ips calligraphus calligraphus**  
pheromones 1694  
*Pinus palustris*, Texas 1694



- Ips cembrae**  
*Larix decidua*  
 Germany 781  
 resistance 781
- Ips confusus**, taxonomy 11095
- Ips cribricollis**, taxonomy 11095
- Ips duplicatus**  
 ecology, competition 2021  
*Ips typographus*, interactions 1698  
 pheromones 1698  
*Picea abies* 2021  
 Sweden 1698
- Ips grandicollis**  
 pheromones 1694  
*Pinus*, wood, New South Wales 1695  
*Pinus palustris*, Texas 1694  
 taxonomy 11095
- Ips hoppingi**, taxonomy 11095
- Ips lecontei**, taxonomy 11095
- Ips mexicanus**  
 Pinopsida, California 10961  
 plant pathogens, transmission 10961
- Ips montanus**, taxonomy 11095
- Ips paraconfusus**  
 pheromones 1694  
 Pinopsida, California 10961  
*Pinus ponderosa*, Texas 1694  
 plant pathogens, transmission 10961  
 taxonomy 11095
- Ips pini**  
 aggregation pheromones, inhibitors 11976  
 biology, behaviour 767  
 ecology, interspecific competition 769, 6793  
 genetics, population genetics 5666  
 pheromones 4377, 4729  
*Pinus*  
 New York 4729  
 resistance 10966  
 USA 7953  
 Wisconsin 10966  
*Pinus contorta*, British Columbia 767, 769  
*Pinus ponderosa*, Idaho 5666  
*Pinus sylvestris*, Michigan 6793  
 plant pathogens, transmission 10966  
 predators 11976  
 Wisconsin 11976
- Ips plastographus**  
 Pinopsida, California 10961  
 plant pathogens, transmission 10961
- Ips sexdentatus**  
 fungi, interactions 2695  
*Pinus sylvestris*, France 2695
- Ips typographus**  
 biology, behaviour 2709, 3052  
 control  
 chemical control 6795  
 integrated control 3660, 12016  
 traps 10959  
 ecology, competition 2021  
 forest trees, Austria 10959  
*Ips duplicatus*, interactions 1698  
 Lithuania 3052  
 monitoring, traps 8920  
 pathogens 7957, 10439  
 pheromones 1698, 8920, 8924  
 physiology, metabolism 11184  
*Picea*, Germany 12016  
*Picea abies* 2021  
 Austria 1701, 2709, 7957  
 Europe 8924  
 Germany 3660  
 Slovenia 6795  
 Sweden 1698  
*Picea jezoensis*, Hokkaido 8920  
*Pityogenes chalcographus*, interactions 1701, 8924  
 quarantine, UK 2248
- Ipsdienol**  
 mixtures, attractants, *Dendroctonus brevicornis* 7936  
 pheromones, *Ips pini* 4377
- (-)-**Ipsdienol**, mixtures, pheromones, *Ips pini* 4729
- (+)-**Ipsdienol**, mixtures, pheromones, *Ips pini* 4729
- (S)-(+)-**Ipsdienol**  
 mixtures, pheromones, *Ips paraconfusus* 1694  
 pheromones, *Ips avulsus* 1694
- Ipsenol**, pheromones, *Ips typographus* 8920
- (S)-(-)-**Ipsenol**  
 mixtures, pheromones, *Ips paraconfusus* 1694  
 pheromones, *Ips grandicollis* 1694
- Iran**  
*Citrus*, *Aonidiella orientalis*, natural enemies 3553  
 cotton, *Bemisia tabaci* 3615  
 figs, *Ceroptastes rusci*, natural enemies 3548  
 food plants, *Apomyelois ceratoniae* 3571  
 fruits, *Apomyelois ceratoniae* 3549  
 habitats, *Allothrombium pulvinum* 9352  
 Isopoda 2040  
 man, insecticide residues 8562  
 onions, *Delia antiqua* 3514  
*Pharoscymnus* 674  
 sunn hemp, *Eurygaster integriceps* 3624  
*Tomostethus nigratus* 3121  
 woody plants, Hemiptera, predators 674
- Iraq**  
 dates, commodities, Pyralidae 851  
 pome fruits, *Cydia pomonella* 10843
- Irbisia**  
*Agropyron*, North America 10745  
 bibliographies 10745
- Irenimus aequalis**  
 lucerne, New Zealand 906  
 parasitoids 906, 1462
- Irian Jaya**, *Apis*, ectoparasites 11430
- Iridescent viruses**  
 genetics  
 DNA 5216  
 genes 8438
- Iridoids**, effects, *Lasius niger* 7204
- Iridomyrmex**  
 control 11892  
 ecology 740  
*Eucalyptus*, habitats, Northern Territory 740  
 oranges, New South Wales 11892
- Iridomyrmex anceps**  
 biology, behaviour 3061  
 seeds, interactions 3061
- Iridomyrmex humilis** (see also *Linepithema humile*)  
 biology  
 behaviour 5136  
 sex ratio 6017  
 control, trapping 2094  
 Georgia 2094
- Iridomyrmex sanguineus**  
 Formicidae, interspecific competition 2085  
 Northern Territory 2085
- Iridoviridae**  
 genetics, genetic mapping 10408  
 hosts  
*Popillia japonica* 8434  
*Wiseana* 10408  
 taxonomy 2159, 7384
- Iris**, *Thrips konoii* 919
- Irish Republic**  
 Bibionidae 268  
*Fraxinus excelsior*, *Eriophyes fraxinivorus* 3635  
 Gastropoda 7378  
 insecticide residues, soil 9644  
*Neuroterus aprilius* 7268  
*Quercus*, *Macrodiplosis* 3635  
 wheat  
 Aphididae 11718  
 fields, Braconidae 11718
- Iron**  
 effects  
*Dolerus* 10501  
*Drosophila melanogaster* 5865
- Irradiation**  
 control  
 insect pests, horticultural crops, commodities 4799  
*Lasioderma serricorne*, tobacco, commodities 12075  
 effects, *Anastrepha suspensa* 11285
- Irrigation**  
 effects  
*Acyrtosiphon pisum* 8683  
 cotton, insects 706  
*Erythroneura variabilis* 11879  
 insect pests, groundnuts 11937
- Irrigation cont.**  
 effects cont.  
 insects 2649  
 lucerne 8679  
*Pectinophora gossypiella* 8843
- Irrigation scheduling**, effects, insect pests, cotton 4664
- Irrigation systems**, *Selenisa sueroides*, damage 2100
- Isatis incetigota**, *Plutella xylostella*, China 3420
- Isatis tinctoria**, *Plutella xylostella*, China 3420
- Isauria aphidivora** (see *Dipha aphidivora*)
- Isazofos**  
 control  
*Formica exsectoides* 580  
 insect pests, *Lolium* 6509  
*Nysius huttoni*, swedes 6579  
 interactions, herbicides 10632  
 phytotoxicity, wheat, seeds 11723  
 toxicity  
*Deroceras reticulatum* 11723  
*Maladera matrida* 8511  
*Popillia japonica* 4265
- Ischiodon scutellaris**  
 biology, life history 8824  
 ecology, population dynamics 8824  
 prey, *Toxoptera aurantii* 8824  
 tea, plantations, India 8824
- Ischnothele guyanensis**, biology, development 326
- Isocolus**  
*Centaurea*  
 Europe 1225  
 galls 1225  
 parasitoids 1225
- Isofenphos**  
 control  
 insect pests, peas 1480  
*Ophiomyia phaseoli*, *Phaseolus* 10770  
*Orseolia oryzae*, rice 8662  
*Pallasiola absinthii*, grasslands 3481  
 effects, *Steinernema feltiae* 7396  
 residues, environment 5685  
 toxicity, *Cnaphalocrocis medinalis* 11744
- Isoleucine**, effects, *Bactrocera cucurbitae* 7029
- Isopod iridescent viruses**, hosts, *Porcellio scaber* 1254
- Isopoda**  
 distribution  
 Arab countries 2040  
 UK 1794  
 ecology  
 colonization 9283  
 community ecology 3919  
 insecticides, effects 2350  
 low input agriculture, effects 9843  
 Southern Africa 3919  
 UK 9283
- Isoprocarr**  
 control, Delphacidae, rice 3466  
 mixtures, control, *Steneotarsonemus spinki*, rice 9720  
 resistance, *Sogatella furcifera* 4437
- 5-[1-(4-Isopropoxyphenyl) ethyl-3-(2-chlorophenyl)-1,3,4-oxadiazol-2(3H)-one]**, toxicity, *Tetranychus urticae* 4258
- Isoprothiolane**  
 degradation, water 10574  
 residues, lawns and turf 10635
- Isoptera**  
 Algeria 9362  
 biochemistry, enzymes 4924  
 biology 7368  
 environmental factors 3589  
 Brazil 4683  
 buildings 1760  
 China 5186  
 control 7368  
 chemical control 699, 6204, 7666, 8813  
 cultural control 5471  
 heat treatment 1760  
*Cyrtilla racemiflora*, habitats, Puerto Rico 6767  
 damage 7368  
 deserts, New Mexico 9452  
 distribution 3760  
 Arab countries 2035



- Isoptera** *cont.*  
distribution *cont.*  
Sudan 10387  
ecology 7371  
habitats 4683  
evolution 2141  
fertilizers, effects 5471  
forests, South America 7371  
groundnuts  
Africa 6713  
damage 6713, 10387  
Sudan 10387  
microorganisms, interactions 4924  
morphology, scales 11144  
*Paraserianthes falcataria*, India 2679  
physiology  
metabolism, reviews 1234  
nutrition 1235  
Pinopsida, commodities, New Zealand 1767  
predators 248  
prey, *Acanthognathus rudis* 6055  
root crops  
Nigeria 5471  
resistance 5471  
yield losses 5471  
savannas, ecology 180  
soil, Botswana 338  
sugarcane  
India 3589  
Uttar Pradesh 8813  
taxonomy 2035, 3760  
tea, Malawi 699  
teaching materials 7368  
wheat  
Haryana 7666  
Uttar Pradesh 8813  
Zimbabwe, reviews 1232  
**Isothiocyantes**, residues, wheat, commodities 12070  
*Isotima javensis*, sugarcane, habitats, Bihar 6718  
*Isotoma notabilis*  
crops, Germany 6088  
ecology, population dynamics 6088  
**Isotomiella**  
Sumatra 7294  
taxonomy 10081  
*Isotomiella minor*, soil, Egypt 47  
*Isotomina*, taxonomy 5818  
*Isotomurus palustris*, green manures, effects 9286  
**Isoxathion**  
control  
insect pests, cowpeas 9771  
Pentatomidae, rice 1460  
effects, predatory insects 9771  
mixtures, control, *Pseudaulacaspis pentagona*, tea 11957  
resistance, *Liriomyza trifolii* 10564  
**Isoxynil**, effects, *Spodoptera littoralis* 2259  
**(R)-(-)-Ispdienol**, (S)-(+)-Ispdienol, pheromones, mixtures, *Ips calligraphus calligraphus* 1694  
**Israel**  
*Acacia cyanophylla*, Diaspididae 11309  
apples, *Panonychus ulmi* 3537, 4562  
*Asphodelus ramosus*  
*Asphodelus ramosus* 1739  
*Capsodes infuscatus* 795  
*Bemisia tabaci* 9561  
biological control, arthropods 8455  
*Citrus*  
Aleyrodidae 3555  
*Ceroplastes floridensis* 7845  
Coccinellidae 8322  
cotton  
Aleyrodidae 9956  
*Bemisia tabaci* 4218, 5616  
natural enemies 5612  
crops, *Bemisia tabaci* 4263  
entomogenous fungi, checklists 6254  
Fabaceae, insects 1723  
food plants  
Aphididae, parasitoids 5398  
*Phthorimaea operculella* 4388  
fruits, *Frankliniella occidentalis* 10857  
grapes  
*Cryptoblades gnidiella* 6669  
*Lobesia botrana* 2574, 3546  
**Israel** *cont.*  
greenhouse crops, *Liriomyza huidobrensis* 8621  
groundnuts, *Maladera matrida* 687, 4634, 10900  
insect pests, control, biological control 7490  
*Litchi*, pest control 2586  
maize, *Ostrinia nubilalis* 10710  
*Maladera matrida* 3311  
melons, *Tetranychus cinnabarinus* 5562  
*Ononis*, *Therioaphis* 5398  
pears, *Frankliniella occidentalis* 10854  
pecans, *Monelliella caryella*, natural enemies 5566  
*Pinus*  
forests, parasitoids 1696  
*Matsucoccus josephi*, predators 2697, 12009  
*Thaumetopoea wilkinsoni* 1696  
*Pinus halepensis*, *Cryptolestes halevyae* 2691  
*Pistacia*, Aphididae 5567, 8893  
*Pistacia palaestina*, Aphididae 5568  
*Prunus*, *Anarsia lineatella* 2564  
*Quercus ilex*, *Hoplocallis pictus* 5398  
subtropical fruits, *Ceratitis capitata* 8778  
sunflowers  
*Frankliniella occidentalis* 3579  
natural enemies 8805  
*Theba pisana* 1132  
Tingidae 2026  
tomatoes  
arthropod pests 7785  
Lepidoptera 4527  
tree fruits, *Zygina flammigera* 6627  
trees, Diaspididae, ectoparasites 7221  
*Vespa orientalis*, parasitoids 8383  
**Italo-chrysa neurodes**  
biology, behaviour 8265  
*Chrysanthemoides moniliferum*, South Africa 8265  
**Italy**  
*Abies alba*  
*Argyresthia illuminatella*, natural enemies 9996  
*Epinotia nigricana*, parasitoids 9995  
*Phenacoccus longoi* 4744  
*Acacia longifolia*, *Forficula auricularia* 2720  
*Agriotes ustulatus* 9284  
*Alnus*, *Fenusia dohrnii* 8886  
*Alstroemeria*, *Frankliniella occidentalis* 3672  
Aphididae, natural enemies 2412  
Aphidoidea, natural enemies 2111  
*Apis mellifera*, ectoparasites 2108, 2117, 8509  
apples  
arthropod pests 7810  
*Cydia pomonella* 6646  
*Dysaphis plantaginea* 8762  
*Hoplocampa testudinea* 11855  
insect pests 5525  
orchards, *Amblyseius andersoni* 11856  
*Panonychus ulmi* 4562, 11857  
aquatic environment, chlorinated hydrocarbons, residues 5363  
Araneae 8391  
*Arrhenatherum elatius*, *Puto superbus* 5449  
*Cacopsylla pyri*, natural enemies 2562  
*Capsicum*  
*Frankliniella occidentalis* 8745  
*Thysanoptera* 10831  
*Carabus* 3910  
celery  
Aphididae 3521  
insecticide residues 1511  
*Liriomyza huidobrensis* 11816  
*Celtis australis*, *Aceria bezzii* 752  
*Centaurea solstitialis*, natural enemies 5729  
*Ceratitis capitata* 6010  
cereal grains, storage mites 6879  
cereals, commodities, *Acarus siro* 6879  
chestnuts, Tortricidae 6703  
*Citrus*  
*Aonidiella citrina*, natural enemies 11899  
**Italy** *cont.*  
*Citrus* *cont.*  
insect pests 11903  
orchards, beneficial insects 11899  
clementines, arthropod pests 10878  
Coleoptera 5088-5089, 6942  
crops  
*Aphis gossypii*, natural enemies 11833  
habitats, beneficial insects 11833  
cucumbers  
Hemiptera 1525  
insect pests 2539  
*Dasineura gleditichiae*, natural enemies 5155  
*Dracaena fragrans*, *Xyleborus affinis* 1717  
*Encarsia transvena* 6175  
*Eucalyptus*  
habitats, natural enemies 5639  
*Phoracantha semipunctata*, natural enemies 5639  
field crops  
*Bemisia tabaci*, parasitoids 6659  
habitats, predators 5174  
fields, habitats, Diptera 9665  
flour mills  
Acari, natural enemies 6879  
stored products pests 6878  
food plants  
*Callitarea pudibunda* 9666  
*Hyphantria cunea* 11703  
*Kampimodromus ericinus* 8058  
*Metacalla pruinosa* 11854  
Nitidulidae 11845  
*Forficula auricularia*, natural enemies 2720  
*Formica* 2097  
fruit crops  
arthropod pests 7805  
*Metacalla pruinosa* 11843  
fruit trees, pest control 7804  
fruits  
arthropod pests 6631  
habitats  
beneficial insects 11844  
*Stethorus punctillum* 11444  
integrated pest management 641  
*Panonychus ulmi*, natural enemies 11444  
*Glischrochilus quadrisignatus*, natural enemies 11733  
grapes  
*Empoasca vitis* 11882, 11885  
parasitoids 6666  
*Lobesia botrana* 2570-2571, 9875  
pesticide residues 11884  
*Scaphoideus titanus* 658, 10868  
Tortricidae 2569, 9876  
greenhouse crops, Aleyrodidae 11447  
greenhouses  
habitats  
Miridae 11447  
*Nabis punctatus* 9444  
habitats, invertebrates 9843  
*Haptoncus luteolus*, distribution 11845  
hazelnuts  
beneficial arthropods 4614  
orchards, Phytoseiidae 4613  
*Phytoseius avellanae* 4613  
Hemiptera 6031  
horticultural crops  
Agromyzidae 2212  
insect pests 11705  
human milk, pesticide residues 4312  
*Hyphantria cunea* 11703  
*Juniperus*  
habitats, natural enemies 782  
*Planococcus vovae* 782  
kiwifruits, insect pests 4568  
*Laurus nobilis*, *Aonidia lauri*, parasitoids 10005  
lemons, *Saissetia oleae* 11900  
maize  
insect pests 5419  
*Ostrinia nubilalis* 9694  
man  
insecticides, toxicity 2315  
*Tetranychus urticae*, allergies 8355  
marrows, Aphididae 2538, 10836  
*Nezara viridula* 975



**Italy cont.**

- olive oil, insecticide residues 8808
- olives
  - Bactrocera oleae* 8808, 11930
  - insecticide residues 5578, 11930
  - orchards
    - Araneae 11929
    - insects 11933
  - Zeuzera pyrina* 11931
- oranges, arthropod pests 11900
- peaches
  - Aphididae 9850
  - arthropod pests 1548
  - Cydia molesta* 6659
  - Lygus rugulipennis* 11865
  - Myzus persicae*, natural enemies 9850
  - Myzus varians*, predators 9851
  - orchards, predatory insects 9851
- pears
  - Cacopsylla pyri* 2562
  - orchards, beneficial arthropods 11856
- pesticides, registration 1305, 3313
- Picea abies*
  - Cephalcia arvensis* 4736, 6796, 10970
  - parasitoids 5677
- Pieris* 7147
- Pinopsida, forests, soil, *Bibio varipes* 12008
- Pinus cembra*, *Oncerostoma piniariellum* 3232
- Pinus mugo*, Aphididae 9990
- Pinus pinaster*, *Monochamus galloprovincialis* 5674
- Poaceae, *Haematoloma dorsatum*, predators 9665
- poinsettias, *Bemisia tabaci* 12033
- Polyergus rufescens* 5138
- Polygonum aviculare*, *Gastrophysa polygoni* 10027
- pome fruits
  - Argyrotaenia ljungiana* 11853
  - Cydia molesta* 7809
  - pest control 3534, 7808
- Populus*
  - insect pests 8877
  - Paranthrene tabaniformis* 10946
- rivers
  - pesticide residues 3400
  - sediment, insecticide residues 5368
- Robinia pseudoacacia*, *Phyllonorycter robinella* 2685
- Scolytus pygmaeus* 9517
- Sesamia nonagrioides* 6173
- Sicily, ornamental plants, Coccoidea 12023
- soil, acaricide residues 10645
- soyabeans, *Nezara viridula* 11766
- stone fruits, pest control 7823
- stored products, insect pests 12082
- strawberries, arthropod pests 11870
- sugarbeet, insect pests 11953
- tomatoes
  - Aphididae 10824
  - insect pests 2532
- Trialeurodes vaporariorum* 11826
- trees, *Iphiclydes podalirius* 1545
- Ulmus laevis*, Coleoptera 8937
- Viburnum tinus*
  - habitats, Bdellidae 12027
  - insect pests 12027
- Pyrrhalta viburni*, predators 12027
- vineyards
  - habitats, *Kampimodromus aberrans* 1560
  - Kampimodromus aberrans* 8775
  - Lobesia botrana* 9874
- wheat
  - commodities, Acari 6879
  - insect pests 2412
- Iteomyia capreae***
  - Salix*
    - galls 5650
    - New York 5650
    - resistance 5650
- Iteomyia salicifolia*** (see *I. capreae*)
- Ithomiinae**, morphology 1852
- Itopectis naranyae***
  - biology 4117
  - hosts, Lepidoptera 4117

***Itopectis alternans spectabilis***

- biology 4117
- hosts, Lepidoptera 4117
- Itopectis conquisitor***
  - Cirsium arvense*, habitats, Maryland 6854
  - hosts, *Cassida rubiginosa* 6854, 7360
  - Virginia 7360
- Iva frutescens***
  - Asphondylia borrichiae*
    - Florida 10985
    - galls 10985
  - habitats, Coccinellidae, Rhode Island 8972
  - Ophraella notulata* 1007
  - Uroleucon ambrosiae*, Rhode Island 8972
- Iva imbricata***
  - Asphondylia borrichiae*
    - Florida 10985
    - galls 10985
- Iva xanthifolia***, *Diabrotica barberi*, South Dakota 1596
- Ivermectin**
  - effects
    - Eisenia fetida* 3383
    - insect pests 8132
    - Locusta* 1321
  - toxicity, guinea pigs 469
- Ixiolaena brevicompta***, *Helicoverpa punctigera*, Australia 6418
- Jaborosa sativa***, extracts, antifeedants, *Tenebrio molitor* 10679
- Jacaranda mimosifolia***, *Phytoliriomyza jacarandae*, Argentina 10982
- Jack pine** (see *Pinus banksiana*)
- Jacquinia***, *Carvalhoisica*, Mexico 11104
- Jadera haematoloma***, genetics, polymorphism 5993
- Jalysus spinosus***, *Tradescantia hirsuticaulis*, South Carolina 4768
- Jamaica**
  - cabbages, *Plutella xylostella* 3515
  - Citrus*, *Toxoptera citricidus* 4591
  - cowpeas, *Fundella pellucens* 2497
  - Hermandia catalpaefolia*, *Papilio homerus* 3933
  - mangroves, *Nasutitermes nigriceps* 2684
  - sugarcane, reports 3717
  - sweet potatoes, *Cylas formicarius* 2518
  - tomatoes, *Keiferia lycopersicella* 2531
- Jamaicana subguttata***, introduction, UK 2023
- Jamides alecto***
  - biology, life cycle 1733
  - cardamoms 1733
- Janetiella lemeei***, UK 3123
- Janetiella oenophila***, distribution, Switzerland 9863
- Japan**
  - Acer amoenum*, *Periphyllus californiensis* 8885
  - Agelena limbata* 3028
  - agricultural products, pesticide residues 4807
  - Agromyzidae 8075
  - Anaglyptus subfasciatus* 4372
  - Aphis* 5824
  - Apidae, parasitoids 7995
  - Apotomis flavifasciana*, *Carpinus japonica* 9064
  - apples
    - insect pests 6643
    - Rhopalosiphum insertum* 9834
  - aquatic weeds, *Pomacea canaliculata* 5724
  - Arisaema serratum*, Sciaridae 6810
  - arthropods 11116
  - aubergines
    - Leucinodes orbonalis* 10828
    - Liriomyza trifolii* 10829
    - Thrips palmi* 7796
  - Bambusa multiplex*
    - Lepidomyctides nagaii* 6836
    - Pseudoregma koshunensis* 3924
  - Biston betularia* 9115
  - Blitopertha orientalis* 7629
  - cabbages, *Plutella xylostella* 4514
  - Castanea*, *Dryocosmus kuriphilus* 5657
  - Caulophyllum robustum*, *Epilachna yasutomii* 4778
  - Ceratovacuna japonica* 6062
  - Chrysomelidae 4856

**Japan cont.**

- Citrus*, Aphididae 3556
- Coccinellidae 204, 9116
- commodities, pesticide residues 7572, 10575, 10577
- crops
  - arthropod pests 5389
  - natural enemies 5813
  - pest control 391
- Cruciferae, *Plutella xylostella* 4503
- Cryptomeria japonica*, *Callidiellum rufipenne* 6804
- cucumbers, *Bemisia tabaci* 10835
- Cucurbitaceae, *Leptoglossus australis* 4543
- Delphacidae 7228
- Diacamma* 1192
- Drosophila* 3893
- Drosophila albomicans* 4044
- Drosophila triaurovia* 7230
- Dryocosmus kuriphilus*, parasitoids 7045
- Elateridae 6289
- Erechthiinae 3773
- Eumolpinae 11080
- Fagus crenata*, *Quadriclcarifera punctatella* 10944
- forest soils, bacteria, insecticides, degradation 2381
- forest trees, Cecidomyiidae 6802
- Frankliniella occidentalis* 11581
- Gastropoda 3250
- Gelechiidae 10106
- Geometridae 11150
- golf courses, pesticide residues 7612
- grapes, pest control 11874
- Halyomorpha mista* 6039
- Heteroptera 8492
- Hygia lativentris* 9137
- Ilex crenata*, *Panonychus citri* 789
- insect pests, parasitoids 9063
- lawns and turf, pesticide residues 10635
- Lentinula edodes*, *Dacne japonica* 2739
- Lepidoptera 4074
- Limnobaris* 6938
- Lindera triloba*, *Scolytidae* 8847
- Liriomyza trifolii* 10563
- Lissorhoptrus oryzophilus*, rice 10740
- Liichi*, *Statherotis discana* 5560
- Locusta migratoria* 5071
- Lolium perenne*, *Parapediasia teterrella* 4456
- Malacosoma neustria* 945
- man
  - insecticide residues 4290
  - insecticides, intake 10576
- Melanotus senilis* 6288
- Meta japonica* 1844
- Meta menardii* 3207
- Miscanthus sinensis*, *Melanaphis yasumatsui* 7998
- Momordica charantia*, *Leptoglossus australis*, natural enemies 7800
- Nephotettix cincticeps* 7539
- Nilaparvata lugens* 4448
- Nitidotachinus* 1798
- Noctuidae 2987
- okras, Pentatomidae 10838
- Orchidophilus* 12040
- ornamental woody plants, habitats, *Agelena limbata* 2110
- Panonychus citri* 1958
- Paratrechina flavipes* 9412
- Parnara guttatus* 10474
- Pentatomidae 975
- pest control 465
- pesticides
  - marketing 10531
  - residues, legislation 3598
- Phytoseiidae 3106
- Picea jezoensis*, *Cephalcia isschikii* 8919
- Pieris napi* 3901
- Pinus densiflora*
  - Monochamus alternatus* 4732, 5668
  - Monochamus saltuarius* 8902
- Pinus luchuensis*, *Aphrophora paguma* 6789
- pot plants, *Frankliniella occidentalis* 12020
- potatoes, *Aphis gossypii* 6556, 7748, 9780
- Pseudoregma bambucicola* 5812



## Japan cont.

- Pueraria lobata*  
*Oligota kashmirica benefica* 613  
*Tetranychus urticae*, predators 614  
Pyralidae 3769  
*Quadricalcarifera punctatella* 7231  
*Quercus acutissima*, *Cyclophragma yamadae* 7914  
Rhinophoridae 4047  
Rhopalocera 9338  
Rhynchitinae 8084  
rice  
*Chilo suppressalis* 10732  
Coleoptera 6495, 9728  
*Cyrtorhinus lividipennis* 7698  
Delphacidae 3460, 7697  
Fulgoroidea 7708  
*Lissorhopterus oryzophilus* 6496-6497  
*Nilaparvata lugens* 7705  
*Oxya yezoensis* 6493  
pesticides, application 8325  
*Pomacea canaliculata* 5443  
*Sogatella furcifera* 4446, 6494  
*Stenotus rubrovittatus* 9727  
sorghum, *Stenotus rubrovittatus* 9716  
soybeans  
*Delia platura* 6533  
*Spodoptera litura* 10761  
*Spodoptera exigua* 4373  
*Stephanitis* 51  
sugarcane, *Anomala* 4935  
sweet potatoes  
*Anomala cuprea* 8718  
*Cylas formicarius* 4500-4501, 7763  
tea  
*Empoasca onukii* 10908  
*Pseudauleacaspis pentagona* 11955, 11957  
parasitoids 11956  
*Scirtothrips dorsalis* 2613  
Tephritidae 5079, 10460  
*Thecodiplosis japonensis*, natural enemies 2705  
*Thrips palmi* 10562  
tomatoes, *Bemisia tabaci* 10821  
urban soils, arthropods 7177  
water, pesticide residues 4335, 6386  
air, pesticide residues 10636  
*Bombyx mori* 4150  
*Cryptomeria japonica*, *Semanotus japonicus* 2714  
*Fagus crenata*, *Quadricalcarifera punctatella* 10944  
fishes, pesticide residues 2334  
Hokkaido  
*Abies sachalinensis*, *Cinara todocola* 778  
*Acanthosoma* 9270  
Agromyzidae, parasitoids 4841  
*Alnus hirsuta*, *Pamphilus alnicola* 5659  
*Amphipoea*, parasitoids 1825  
*Artemisia*, *Liriomyza* 5722  
*Beta*, *Aphis fabae* 9366  
Brassicaceae, *Plutella xylostella*, natural enemies 6588  
cabbages  
*Autographa gamma* 6583  
Lepidoptera 6584-6585, 6589, 9800  
*Plutella xylostella* 9798  
*Coccinella septempunctata* 7359  
*Delia platura* 9388  
*Hemerocallis yezoensis*, *Liriomyza hemerocallis* 10021  
*Hydrangea anomala*, *Elasmucha signoreti* 3671  
*Lamium*, *Sehirus triguttulus* 5044  
*Larix leptolepis*, *Zethenia rufescentaria*, natural enemies 10976  
*Myzus mumecola* 6075  
*Oulema oryzae*, parasitoids 7338  
*Picea jezoensis*  
*Adelges japonicus* 2016  
*Ips typographus* 8920  
*Plutella xylostella* 9650  
potatoes  
Aphididae 6557, 7758  
natural enemies 7759  
insects, natural enemies 7754  
*Trialeurodes vaporariorum* 9781

## Japan cont.

- Hokkaido cont.  
*Quercus*, *Tischeria* 6757  
*Quercus crispula*  
Lepidoptera 6029  
*Neurotoma harai* 6758  
*Tetranychus quercivorus* 10938  
radishes, Carabidae 6570, 8720  
*Rhizoctonia solani*, natural enemies 9928  
rice, *Laodelphax striatella*, parasitoids 10727  
*Tetranychus quercivorus* 6009  
*Triaspis curculionivorus* 3  
*Ulmus*, *Panonychus thelytokus* 5838  
*Ulmus davidiana*  
Aphididae 4712  
*Kaltenbachella japonica* 6763  
Honshu  
*Aculus schlechtendali* 2225  
agricultural products, insecticide residues 4805  
Agromyzidae, parasitoids 4841  
*Alnus hirsuta*, *Curculio morimotoi* 12000  
Aphididae, predators 2135  
*Aphis gossypii* 10551  
apples, *Adoxophyes orana* 10847  
aquatic environment, insecticide residues 5362  
aquatic organisms, insecticide residues 10621  
*Aralia elata*, *Acalolepta luxuriosa* 10999  
*Artemisia*, *Liriomyza* 5722  
*Artemisia vulgaris*, *Pagaronia* 12042  
aubergines, arthropod pests, predators 9814  
*Camponotus japonicus* 5129  
*Castanea crenata*, Aphididae 2098  
*Celtis sinensis*, *Celtisaspis usubai* 7000  
cherries, *Drosophila* 7824  
*Chrysanthemum*, *Liriomyza ptarmicae* 5722  
*Chrysanthemum coronarium*, *Bemisia tabaci* 12036  
chrysanthemums  
*Lygocoris lucorum* 7975  
Thysanoptera, parasitoids 10014  
*Cirsium niponicum*, *Epilachna niponica* 2017  
*Cladius pectinicornis*, parasitoids 7970  
crops  
Drosophilidae 6038  
insecticide residues 6498  
*Cryptomeria japonica*, *Xyleborus validus* 7964  
Cucurbitaceae, *Epilachna admirabilis* 1744  
*Cydia molesta* 6291  
environment, insecticide residues 5685  
*Epiacanthus* 6944  
*Fagus*, *Quadricalcarifera punctatella* 5647  
*Fagus crenata*, *Quadricalcarifera punctatella* 4700, 11989  
*Ficus*, *Gonocephalum ficifolium* 12032  
figs, orchards, Carabidae 5545  
fodder crops, fields, Carabidae 5447  
food plants  
*Aphis gossypii* 10288  
*Liriomyza princeps* 5722  
forest trees  
Lepidoptera 2687  
*Sesia molydoceps* 5633  
forests  
Collembola 9989  
*Heterarthrus* 731  
Lepidoptera 9966  
Formicidae 1197  
*Frankliniella occidentalis* 11547  
garlic, *Aceria tulipae* 6574, 9792  
golf courses, Scarabaeidae 12034  
*Harmonia axyridis* 7157  
*Hellula undalis* 4003  
*Hibiscus mutabilis*, *Aphis gossypii* 10983

## Japan cont.

- Honshu cont.  
hops, *Inachis io geisha*, parasitoids 10380  
*Hydrangea paniculata*, *Nemophora bifasciatella* 11094  
insects 5790  
kiwifruits, *Alebrasca actinidae* 9048  
*Lampteromyces japonicus*, *Oxyporus japonica* 7992  
lawns and turf  
*Anomala octiescostata* 1891  
*Anomala schoenfeldti* 4952  
pest control 5685  
Lepidoptera, parasitoids 6978  
*Lindera triloba*, wood, Scolytidae 9977  
*Lissorhopterus oryzophilus* 6340  
*Locusta migratoria* 1064  
mandarins, *Frankliniella occidentalis* 11891  
marine animals, pesticide residues 8558  
millets, fields, Carabidae 7349  
*Nephotettix cincticeps* 437  
*Nerium oleander*, *Aphis nerii*, natural enemies 797  
Noctuidae, parasitoids 9426  
ornamental woody plants, *Stephanitis takeyai* 10000  
*Oulema oryzae* 6341, 9562  
*Panonychus citri* 11580  
*Parabemisia myricae*, parasitoids 3767  
*Parnara guttatus* 10494  
pastures, *Hypera punctata* 11751  
*Phellodendron amurense*, *Kihadaia rufithorax* 10105  
*Piercea rubricana* 7258-7259  
*Pieris melete* 6030  
*Pieris rapae crucivora* 3802  
Pinopsida, *Polistes mandarinus* 9980  
Pinus  
Coleoptera, parasitoids 7948  
habitats, parasitoids 7948  
*Monochamus alternatus* 2694  
*Pinus thunbergii*, *Monochamus alternatus* 7952  
*Plutella xylostella* 6345  
*Podocarpus nagi*, forests, arthropods 1706  
*Polyergus samurai* 8352  
*Polygonum thunbergii*, pollinators 5727  
*Pomacea canaliculata* 6220  
potatoes, *Epilachna yasutomii* 4493  
*Pyrrhalta humeralis* 10269  
*Pyrrhocoris sibiricus* 10270  
*Quadricalcarifera punctatella*, pathogens 9478  
*Quercus*, *Tischeria* 6757  
*Quercus acutissima*  
habitats, *Megastigmus habui* 11306  
Lepidoptera 11306  
*Trichagalma serrata*, natural enemies 11306  
*Quercus aliena*, habitats, *Chilocorus rubidus* 10939  
*Quercus crispula*, *Tetranychus quercivorus* 10938  
*Rhaphiolepis umbellata*, habitats, *Adalia bipunctata* 5183  
rice  
*Chilo suppressalis* 568  
fields, Carabidae 5439  
*Sogatella furcifera* 4437  
rivers, pesticide residues 6379  
*Rorippa indica*, *Pieris rapae* 5713  
snails, predators 348  
soil, insecticide residues 6498  
soybeans, *Spodoptera litura* 6278  
*Styrax japonica*, *Ceratovacuna japonica*, predators 6774  
sugarcane, *Exomala orientalis* 1892  
sweet potatoes, Coleoptera 611  
tea  
*Heptophylla picea* 11958  
*Homona magnanima* 11579  
plantations, *Neoseiulus longispinosus* 449



**Japan cont.****Honshu cont.**

- temperate tree fruits, *Psacotha hilaris* 10870  
*Termostroemia gymnanthera*, *Trioza ternstroemiae* 9061  
 Tetranychidae 9563  
*Tetranychus quercivorus* 6009  
*Tetranychus urticae* 9564-9565  
*Thrips tabaci* 6085  
 tomatoes, *Trialeurodes vaporariorum* 6607  
 turnips, *Phyllotreta striolata* 6564  
 watermelons, arthropod pests, predators 2576  
 wild plants, *Pidonia tsuyukii* 5707

**Kyushu**

- cabbages, *Plutella xylostella* 7768  
 chestnuts, *Dryocosmus kuriphilus* 7860

**Citrus**

- Anoplophora malasiaca*, parasitoids 9062  
 habitats, *Ontsira anoplophorae* 9062

**food plants**

- Aphis gossypii* 10288  
*Liriomyza princeps* 5722  
*Hydrangea paniculata*, *Nemophora bifasciatella* 11094  
*Lithocarpus edulis*, insect pests 6777  
 marine animals, pesticide residues 8558  
*Plutella xylostella* 7542  
*Pseudoregma bambucicola*, predators 10378  
 Pyralidae 7160  
 rice

- Chilo suppressalis* 7710  
*Cnaphalocrocis medinalis* 7699  
 insect pests, natural enemies 8660  
*Lissorhoptrus oryzophilus* 11739  
*Nilaparvata lugens* 4436  
*Sogatella furcifera* 4445  
 soyabeans, *Piezodorus hybneri* 7166  
*Stephanitis pyrioides* 7505

**Ryukyu Archipelago**

- Argiope aemula* 11307  
*Bactrocera cucurbitae* 10348  
*Cavelerius saccharivorus* 1981  
*Ficus pumila*, *Blastophaga pumilae* 4606

**food plants**

- Aphis gossypii* 10288  
*Tetranychus okinawanus* 10107  
 insect pests 2076  
 mangoes, *Microceropsylla nigra* 7853  
*Melastoma malabathricum*,  
*Hyalopeplus vitripennis* 5711

**Orchidaceae, pests 7977**

- sweet potatoes, *Eusepes postfasciatus* 10792

**temperate tree fruits, *Psacotha hilaris* 10870**

- Termostroemia gymnanthera*, *Trioza ternstroemiae* 9061

**Tetrigidae 3744****Shikoku**

- Acanthocinus griseus* 7155  
 food plants, *Aphis gossypii* 10288  
*Hydrangea paniculata*, *Nemophora bifasciatella* 11094  
 temperate tree fruits, *Psacotha hilaris* 10870

**Japanagromyza macroptilivora**

- Macroptilium lathyroides*, Brazil 2858  
 taxonomy, new species 2858

**Japanese black pine (see *Pinus thunbergii*)****Japanese cedar (see *Cryptomeria japonica*)****Japanese larch (see *Larix leptolepis*)****Japanese quails**

- pesticides, effects 8567  
 prey, insects 9418

**Japonilure (see (R,Z)-5-(-)-(Dec-1-enyl)oxa-cyclopentane-2-one)****Jarra**

- control, *Phoracantha semipunctata*, *Eucalyptus* 6814  
 taxonomy, new genus 5172

**Jarra bicolor**

- hosts, *Phoracantha* 5172

**Jarra bicolor cont.**

- taxonomy, new species 5172

**Jarra diadoxi, taxonomy, from *Doryctes* 5172****Jarra maculipennis**

- hosts, *Phoracantha* 5172  
 taxonomy, new species 5172

**Jarra phoracantha**

- hosts, *Phoracantha* 5172  
 taxonomy, new species 5172

**Jasminum auriculatum, Planococcus**

- lilacinus*, Tamil Nadu 3666

**Jasminum sambac, Contarinia, Tamil Nadu 3665****Jasminum auriculatum, Aceria jasmini, Karnataka 1736****Jassidae (see Cicadellidae)****Jatropha curcas**

- oils, toxicity, field crops, insect pests 12045

**Spodoptera litura, Madhya Pradesh 724****Java**

- Greenideinae 9096  
*Leucaena diversifolia*, *Heteropsylla cubana* 2676

**Johnius belangerii, insecticides, residues 11647****Johnson grass (see *Sorghum halepense*)****Jordan, Aleyrodidae 11369****Jordanita**

- North Africa 9069  
 taxonomy 9069

**Josia aurifusa**

- morphology, larvae 4896  
*Passiflora*, Venezuela 4896

**Josia gopala**

- morphology, larvae 4896  
*Passiflora*, Venezuela 4896

**Josia radians**

- morphology, larvae 4896  
*Passiflora*, Venezuela 4896

**Josia turgida**

- morphology, larvae 4896  
*Passiflora*, Venezuela 4896  
 taxonomy 4896

**Jotus minutus (see *Lycidas minutus*)****Juglans major, Rhagoletis 11915****Juglans mandshurica**

- Fleutiauxia armata*, China 6949  
*Locastra muscosalis*, Korea Republic 6701

**Juglans nigra**

- Locastra muscosalis*, Korea Republic 6701  
*Lymantria dispar* 6747

**Juglans regia (see Walnuts)****Julbernardia globiflora, Saturniidae, Malawi 7931****Julbernardia paniculata, Saturniidae, Malawi 7931****Juncaceae, Auchenorrhyncha, Czech Republic 8969****Juniperus**

- Anthaxia turcica*, Turkey 1828  
*Argyresthia*, Switzerland 10979  
 Coleoptera, Switzerland 12031  
 habitats, Chrysopidae, Spain 4674  
*Phloeosinus*, Austria 10977  
*Thyridopteryx ephemeriformis* Kentucky 7969  
 varietal susceptibility 7969

**Juniperus chinensis**

- habitats, natural enemies, Italy 782  
*Planococcus vovae*, Italy 782

**Juniperus communis**

- Cinara juniperi*, Bulgaria 755  
 habitats, natural enemies, Italy 782  
*Planococcus vovae*, Italy 782

**Juniperus occidentalis****insects**

- galls 12019  
 USA 12019

**Juniperus osteosperma****insects**

- galls 12019  
 USA 12019

**Juniperus oxycedrus**

- habitats, natural enemies, Italy 782  
 insect pests, Greece 3128  
*Planococcus vovae*, Italy 782

**Juniperus thurifera**

- forests, *Charletona blascoi*, Spain 2715  
 habitats, Psocoptera, Spain 8855  
*Solenoxypus sauledai*, Spain 2715

**Junonia coenia**

- biochemistry, enzymes 10157  
 biology, behaviour 1090  
 melanins, synthesis 11222  
 morphology, larvae 6993  
*Plantago lanceolata* damage 11030  
 New York 1090, 11030  
 resistance 11022  
 predators 1090

**Jute (Corchorus capsularis and C. olitorius)**

- arthropod pests  
 West Bengal 5619  
 yield losses 5619

**Juvenile hormone analogues (see also**

- Insect growth regulators)**  
*Dysdercus koenigii*, effects 1390  
 effects

- Schistocerca gregaria* 7621  
*Trichoplusia ni* 8219

**Manduca sexta 102****mode of action 2273****pest control, reviews 11565****Juvenile hormone antagonists, pest control, reviews 11565****Juvenile hormone I****effects**

- Locusta migratoria* 408  
*Sogatella furcifera* 9573  
*Tribolium freemani* 8119

**Juvenile hormone II****effects**

- Locusta migratoria* 408  
*Sogatella furcifera* 9573

**Juvenile hormone III****effects**

- Gryllus* 138  
*Locusta migratoria* 408  
*Schistocerca gregaria* 7621  
*Sogatella furcifera* 9573

**Juvenile hormones****Bombyx mori 8164****characterization 8346****effects**

- Agrotis ipsilon* 8142  
*Bombyx mori* 3407  
*Schistocerca gregaria* 7621

**Gryllus 138****insects 4964****Locusta migratoria 3875****Manduca sexta 3153, 11217****mode of action, reviews 7052****Mythimna unipuncta 995****synthesis 10668****Juvenoids (see Juvenile hormone analogues)****Kadsura japonica**

- Caloptilia kadsurae*, Japan 6978  
 habitats, *Mestocharella costulata*, Japan 6978

**Kaempferia galanga, extracts, toxicity,****Spodoptera littoralis 6825****Kaempferia pandurata, extracts, toxicity,****Spodoptera littoralis 6825****Kairomones****Aphididae 5168****attractants****Aphidius 205****Diadromus pulchellus 2238****Gryon pennsylvanicus 7800****predatory arthropods 212****Vespa germanica 4386****Coccinella septempunctata 5168****control, insect pests 2237****effects, Acari 98****Ephedrus plagiator 9446****Leptoglossus australis 7800****mixtures, attractants, Anomala octiescota 2766****Ostrinia nubilalis 2116, 3231****Tetranychus urticae 8263****Kale (Brassica oleracea var. viridis)****Bemisia argentifolii, resistance 10806****Bemisia tabaci, resistance 2524****Brevicoryne brassicae, varietal susceptibility 8722****Collembola, New Zealand 6578**



**Kale** *cont.*  
 fields  
   beneficial arthropods, South Carolina 4511  
   beneficial insects, Minas Gerais 4506  
   *Pieris rapae*, Virginia 9797  
   *Plutella xylostella*, South Carolina 4511  
   *Taeniopoda eques*, Arizona 8259  
   *Trichoplusia ni* 1508

**Kalimantan**  
*Eucalyptus urophylla*, Isoptera 2659  
 forests, insects 728  
 Geometridae 34

**Kalimeris yomena**, *Liriomyza princeps*, Japan 5722

**Kaloterms approximatus**  
 Florida 6968  
 taxonomy 6968

**Kaltenbachella japonica**  
 genetics, genetic variation 6763  
*Ulmus davidiana*  
   galls 6763  
   Hokkaido 6763

**Kaltenbachiola strobi**  
 biology, population dynamics 9993  
 parasitoids 9993  
*Picea abies*, Switzerland 9993

**Kampimodromus**, taxonomy 8058

**Kampimodromus aberrans**  
 fungicides, resistance 1560  
 pesticides, resistance 8775  
 vineyards  
   habitats, Italy 1560  
   Italy 8775

**Kampimodromus ericinus**  
 food plants, Italy 8058  
 taxonomy, new species 8058

**Kapok trees** (see *Ceiba pentandra*)

**Karate** (see *Lambda-cyhalothrin*)

**Karnyothrips melaleucus**, distribution, UK 2852

**Kawanaphila nartee**, biology, reproduction 5040

**Kazakhstan**  
*Hippophae rhamnoides*, *Macropsis* 5793  
 Linyphiidae 12102  
*Lymantria dispar* 11284  
*Stictiocephala bisonia* 8316

**Keiferia lycopersicella**  
 control, chemical control 2531  
 pheromones 11690  
 tomatoes  
   California 6407  
   Jamaica 2531

**Kelthane** (see Dicofof)

**Kelthane-s** (see Dicofof, with omethoate)

**Kenaf** (*Hibiscus cannabinus*)  
 pest control 2643

**Kenya**  
*Acacia*, Cecidomyiidae 3772  
*Adansonia digitata*, *Dysdercus fasciatus* 6408  
 bananas  
   *Cosmopolites sordidus* 662, 7841  
   predators 5550  
   plantations, *Dactylosternum abdominale* 10874  
 cassava, *Mononychellus tanajoa* 2510  
*Ceratitidis capitata* 6010  
 cereals, *Chilo partellus* 4397, 5417  
 coffee  
   pest control 3601, 9943  
   *Prophantis smaragdina* 3604  
 cotton, *Helicoverpa armigera*, predators 1626  
 cowpeas, *Megalurothrips sjostedti*, natural enemies 6417  
*Cupressus*, *Cinara cupressi* 8932  
*Cupressus lusitanica*, *Cinara cupressi* 1705, 7963, 8933  
 Diptera 10303  
 field crops  
   *Helicoverpa armigera*  
     natural enemies 6427  
     predators 6050  
   Lepidoptera 1418  
 food plants, *Dysdercus cardinalis* 6408  
 insecticides, safety 423  
 Lepidoptera 4049  
*Macrotermes* 4127

**Kenya** *cont.*  
 maize  
   *Chilo partellus* 1434, 4413, 5416, 5425, 7679, 9708  
   fields, parasitoids 5425  
   mangoes, insecticide residues 5347  
   *Megaponera foetens* 2917  
   *Mononychellus tanajoa*, predators 2506  
   Nymphalidae 4937  
   *Paltothyreus tarsatus* 5128  
   *Phaseolus vulgaris*, *Aphis fabae*, natural enemies 6541  
   pigs, insecticide residues 5316  
   sorghum, *Busseola fusca* 6473  
   *Spodoptera exempta* 5069, 6277  
   sweet potatoes, insect pests 11799  
   tea, *Aspidiotus* 5590  
   tropical forests, insects 5624

**Kermesidae**  
 Fagaceae, Shandong 8069  
 ornamental plants, Sicily 12023  
 taxonomy 8069

**Kermicus wroughtoni**  
*Gigantochloa scortechinii*, Malaysia 5630  
*Tetraponera exempta* 5069, 6277

**Kerosene**, effects, *Metarhizium flavoviride* 10446

**Kerria**, biochemistry, secretions 8138

**Kerria chinensis**, biochemistry, secretions 8138

**Kerria lacca**  
*Berginus maindroni*, interactions 3245  
 biochemistry, secretions 8138  
*Butea monosperma*, Bihar 11431  
 ecology, population dynamics 11431  
 India 5159  
 parasitoids 11431  
 predators 5159

**Kerria mengdingensis**  
*Ficus*, Yunnan 22  
 taxonomy, new species 22

**Kerria yunnanensis**, trees, Yunnan 1236

**Ketoconazole**, effects, *Gryllus bimaculatus* 8167

**4-keto-(E)-2-Hexenal**, secretions, *Lincus* 4885

**4-keto-(E)-2-Octenal**, secretions, *Lincus spurcus* 4886

**Keys**  
 Acari 10078  
 Acrididae 918  
*Aditrochus*, South America 10935  
 Aeolothripidae, Turkey 1147  
*Agonum* 32  
*Agropyus*, India 6952  
*Aleuroclava*, India 21  
*Allorhinocoris*, China 8089  
*Amaurobius*, Greece 11096  
*Amblyseius*, Turkey 1537  
*Ammophila*, Shandong 10079  
*Anisodactylus*, Canada 1799  
*Annectobracon* 10115  
 Anthicidae, New Zealand 9058  
 Anthomyzidae, Israel 1809  
 Aphelinidae, Africa 7283  
 Aphelinoidea, Holarctic Region 5802  
 Aphididae  
   Argentina 3483  
   Brazil 2865, 8079  
 Aphidoidea 9787  
*Aphis* 935  
   Europe 6840  
   Japan 5824  
   North America 6840  
*Aphytis* 7286  
*Apodiphus*, Pakistan 2546  
*Aridius*, Falkland Islands 9740  
*Ascogaster*, Asia 11112  
 Asopinae, Mexico 1847  
*Astriphromma*, Korea Republic 3218  
*Atesta*, Australia 1663  
*Atholus*, Africa 8063  
*Aulacocentrum*, China 9094  
*Bactrocera dorsalis* complex 6945  
*Barypus* 16  
*Belomicrus*, North America 11115  
*Bembidiina*, New Zealand 1159  
 Bethylinae 11111  
*Bibio*, Sweden 10116  
*Blastodiplosis quadrata*, India 5819  
*Blastophaga*, Asia 10103

**Keys** *cont.*  
 Bombyliidae 2839  
*Bombylius* 8086  
 Bostrichidae, Venezuela 7270  
*Brachista*, America 4839  
 Braconidae 2842-2843  
   China 4854  
 Braconinae, Australia 4855  
 Buprestidae 5811  
*Calomacraspis* 2850  
*Caloptilia*, Europe 9102  
*Camisia* 6961  
 Carabidae, China 3098  
*Caryocolum*, UK 8072  
 Cecidomyiidae  
   books 8045  
   Shaanxi 7671  
*Cecidophyopsis* 5534  
 Cerambycidae 6965  
*Ceropria*, Asia 5785  
*Ceropria induta* group, Asia 10108  
*Cheletomimus* 8059  
*Chelonus*, India 11118  
 Cheyletidae, Australia 4588  
 Chilocerinae, Korea Republic 11099  
 Chrysogasterini, Europe 4894  
*Chrysoperla* 5804  
 Chrysopidae, Guizhou 5791  
*Chrysopophthorus*, Europe 9374  
 Cicadellidae  
   Nearctic Region 11083  
   Turkey 1566  
 Cicadellinae, Asia 11121  
 Cicindelidae  
   Colorado 6983  
   Venezuela 7271  
*Cinara*, Europe 1  
*Clinocentrus*, Palaearctic Region 9087  
*Closterocerus* 4843  
 Coccidae, Australia 3741, 5800  
 Coccidulini, Caribbean 4866  
*Coccinella*, North America 8083  
 Coccinellidae, North America 3777  
*Coccophagus malthusi* group, India 1819  
 Coleoptera 5776  
*Coleoscurus*, Pakistan 6415  
 Collembola 8062  
*Commellus*, North America 8088  
*Copris*, Africa 1822  
 Coryphiini, Palaearctic Region 909  
*Cotinis*, Mexico 11086  
*Cryptophion*, Costa Rica 8082  
 Cryptorhynchinae, New Zealand 8052  
 Curculionidae  
   Indian Ocean Islands 8091  
   Japan 11110  
 Curculionoidea 3742  
   Australia 4816-4818  
*Cyclocephala*, Guatemala 11097  
 Cynipidae, Europe 11113  
 Dalcidae 3747  
*Dalya*, North America 3776  
*Dapsilarthra*, Japan 4841  
*Dermestes*, North America 5796  
 Dermestidae 11037  
*Diaglyptidea*, Maharashtra 11093  
 Diaspididae, Malaysia 5808  
*Dichomeris*, Korea Republic 11119  
*Diplopsocus*, China 14  
*Dolichoderus* 37  
*Dolichogenidea*, Africa 3751  
*Dorcatoma chrysomelina* group 6962  
 Dynastini 2875  
*Dysaphis*, India 15  
 Encyrtidae  
   India 11117  
   North America 3766  
*Epichlorops* 10093  
*Epipemphigus* 23  
*Eriochiton* 4870  
*Essigella* 4728  
*Euagathis*, Sunda Islands 9093  
*Euaresta*, South America 9  
 Eucoilidae, Korea Republic 11079  
 Eumolpinae, Japan 11080  
 Eupalopsellidae, Australia 4847  
*Eurystylus*, Africa 9075  
*Eurytoma*, Turkey 901  
 Eurytomidae, UK 3743  
*Euscercia*, Africa 6970  
*Evippe*, China 5807



## Keys cont.

*Extatosoma* 899  
*Extrusanus*, North America 8088  
 Fenusini, China 8078  
 Flatidae, Oriental Region 49  
*Fleutiauxia*, China 6949  
 Formicidae 1817, 5772  
*Fulvius*, America 1848  
*Gallerucida* 10117  
 Gastropoda, USA 3737  
*Geocia* 3570  
 Geometridae, Neotropical Region 44  
*Gonatocerus*, India 11092  
 Greenideinae, Java 9096  
*Hadrobregmus*, Japan 11101  
*Haliopsis* 2  
 Halictophagidae, South East Asia 1829  
*Halictoxenos*, Afrotropical Region 10083  
*Harpobittacus*, Australia 6954  
*Helioides*, Illinois 10991  
 Hepialidae, New Zealand 8068  
 Homoptera 4837  
 Hybosoridae, Ecuador 9101  
 Hydrophilidae, Indonesia 5783  
*Hylastes*, North America 3658  
 Hymenoptera 1803  
   Taiwan 298  
*Hypselistes*  
   Russian Far East 4825  
   Siberia 4825  
 Ichneumonidae, Israel 5398  
 Ichneutinae 11106  
*Idiocerus*, Himachal Pradesh 6980  
*Incurvaria vetulella* group, Europe 11107  
 insect pests  
   sugarbeet 5588  
   USA 3737  
 Isoptera  
   Arab countries 2035  
   Florida 6968  
*Isotomiella*, Thailand 10081  
*Kampimodromus* 8058  
 Kermesidae, China 8069  
*Kradibia* 10102  
*Lanelater* 1640  
 Lauxaniidae, Australia 3733  
*Leiodes*, America 1845  
 Limacidae, USA 3737  
*Lophomyrmex* 48  
 Macrocentrinae 2859  
*Macropsis* 5793  
*Mallada*, Australia 9085  
*Megarhyssa*, Quebec 2833  
*Mestocharella*, Asia 6978  
*Metaphycus*, India 18  
*Metopia*, UK 11130  
*Microctonus*, New Zealand 906, 1462  
*Microtopus* 11108  
 Miridae  
   Mediterranean Region 11447  
   Spain 7788  
 Moranilini, New Zealand 9091  
*Mycobates*, North America 5798  
*Mycomya*, China 4835  
*Myosomatoides*, America 11131  
 Myrmecolacidae, Australia 26  
 Naupactini 6958  
*Neoscia*, Palaearctic Region 1823  
*Neochrysocharis* 8090  
 Neoneurinae 6985  
*Neosymydobius* 5799  
*Niphadoses*, Pakistan 2468  
*Nitidotachinus* 1798  
 Odontoptera 3764  
*Odontotaenius* 5801  
 Opomyzidae, UK 8073  
*Orasema xanthopus* group 9073  
*Orchidophilus* 12040  
 Orgilinae 9095  
*Orius*  
   Japan 5813  
   Spain 6966  
*Oxyporus*, Illinois 6097  
*Pantophyrtus*, Asia 9057  
*Paraseiulella* 3762  
*Pardosa paludicola* group, Japan 2834  
 Passalini, America 3774  
 Pentatomidae 603  
 Penthalodidae, Australia 9053  
*Peucea*, Africa 923  
*Phyllocolpa* 1675

## Keys cont.

Phytoseiidae 5815  
   France 1209  
*Pityophthorus*, Florida 12  
*Podotenus*, Australia 4851  
 Procliticini 4867  
*Psammodius*, India 6982  
*Pseudococcus*, Philippines 11088  
 Psocoptera, North America 5771  
 Psyllidae, India 10094  
*Psylloides* 742  
 Pteromalidae 1815  
 Pterophoridae, Florida 1804  
*Pterostichus* 8055  
*Putoniessa* 6963  
*Pygostolus*, Europe 11109  
*Rhinotrumbium* 25  
 Rhopalocera, China 1795  
 Rhopalophorini 3771  
 Rhynchaeninae, UK 2849  
 Rhynchitinae, Japan 8084  
*Rogeria* 11114  
 Rutelinae 2850  
*Salignus* 3770  
*Scaphodhara*, India 6979 --  
*Sinella* 13  
*Slaterobius* 3659  
 Smarididae 8066  
 Sphecidae, New Zealand 4852  
 Staphylinidae 3778  
   North America 922  
*Stenus*, Sichuan 20  
 Sticholotidiinae 10095  
*Strouhalium*, Asia 2832  
*Sycoecus*, Africa 8080  
*Synacra*, Europe 10099  
*Syrphophagus aeruginosus* group 1849  
*Tachysphex*, Sri Lanka 6986  
*Tachytes*, USA 1816  
 Talitridae, New Zealand 4861  
*Teleopterus*, Holarctic Region 4830  
*Tenuipalpus*, Africa 3746  
 Tephritidae 8987  
   Switzerland 3730  
 Termitoxeniinae 9090  
 Tetrigidae, Japan 3744  
 Tettigoniidae, Australia 1802  
*Thasus* 9065  
 Thrips, New World 919  
*Thripsaphis*, China 6956  
 Thysanoptera  
   Central Europe 3779  
   Georgia 787  
   Philippines 6977, 11743  
   USA 5554  
*Tibilis* 3768  
 Tiphidae, Florida 10007  
 Tipulidae, Korea Republic 6951  
 Toryminae 11098  
 Trichogrammatidae, India 11418  
*Trogoderma* 6973  
*Tropobracon* 6984  
 Tryphonini, Korea Republic 10085  
*Tychius*, North America 6526  
*Tydeus*, Sweden 8057  
*Uromenus* 8095  
*Vespa bicolor* group 2838  
*Xyleborus*, California 5644  
*Zelee*, Taiwan 6170  
*Khadira aurantia* (see *Eudocima aurantia*)  
*Kielmeyera coriacea*, extracts, effects, *Atta*  
   *sexdens* 7999  
*Kihadaia*, taxonomy, new genus 10105  
*Kihadaia rufithorax*  
   *Phellodendron amurense*, Honshu 10105  
   taxonomy, new species 10105  
*Kimadiplosis*, taxonomy, new genus 3772  
*Kimadiplosis diversa*  
   *Acacia*  
     galls 3772  
     Kenya 3772  
   taxonomy, new species 3772  
 Kinoprene  
   control  
     *Aphis gossypii*, cotton 9959  
     stored products pests 8016  
   effects, *Dysdercus cingulatus* 8513  
   nontarget effects, chrysanthemums 10992  
 Kiwifruits (*Actinidia deliciosa*)  
*Alebrasca actinidae*, Honshu 9048

## Kiwifruits cont.

*Anastrepha fraterculus*, Santa Catarina  
 7856  
 arthropod pests  
   Chile 9901  
   France 1561  
   Italy 7805  
*Cnephasia jactatana*, New Zealand 675  
 Diaspididae  
   damage 6691  
   New Zealand 6691  
 habitats, beneficial insects, Italy 11844  
 insect pests  
   damage 11911  
   Italy 4568  
   Korea Republic 11911  
   New Zealand 6695  
 insecticides  
   effects 4600  
   residues 8576  
*Metcalia pruinosa*, Italy 11843  
 pesticides, residues 9901  
*Pseudaulacaspis pentagona*, Italy 11844  
*Thrips obscuratus*, New Zealand 5546,  
 8777  
 Tortricidae, New Zealand 6628, 6692  
*Knorella bambusae*, taxonomy, synonyms,  
 of *K. fuzhoui* 3727  
*Knorella fuzhoui*, taxonomy, synonyms, *K.*  
*bambusae* 3727  
*Kochia scoparia*, *Melanoplus sanguinipes*  
 8177  
 Kohlrabi (*Brassica oleracea* var.  
*gongyloides*)  
*Bemisia tabaci*, resistance 2524  
*Delia radicum* 6581  
 insecticides, residues 9596  
*Trialeurodes vaporariorum* 9596  
*Kollasmosoma*, taxonomy, new genus 6985  
*Kollasmosoma platamonense*, taxonomy,  
 from *Elasmosoma* 6985  
 Korea Democratic People's Republic  
 Chrysomelidae 11377  
 Cicadellinae 11121  
 Ichneumonidae 4042  
 Lauxaniidae 10110  
 Lepidoptera 6974  
 Korea Republic  
*Allium*, *Acrolepia sapporensis* 5487  
*Aphis glycines*, parasitoids 7355  
 apples, *Tetranychus urticae* 2550, 5526,  
 7811  
*Astriphromma* 3218  
*Bacillus thuringiensis* 2181  
 cabbages, *Plutella xylostella* 2522  
 Carabidae 1158, 11373  
 Chinese cabbages, *Myzus persicae* 7769  
 chrysanthemums, *Nysius plebeius* 7979  
 Cicadellinae 11121  
 Coccinellidae 204  
 Cosmopterigidae 11379  
*Delia antiqua*, parasitoids 301  
 Delphacidae 7228  
*Dichomeris* 11119  
 Drepanosiphidae 6964  
*Dryocosmus kuriphilus*, parasitoids 10366  
 Eucoilidae 11079  
 field crops  
   *Bactrocera depressa* 6599  
   *Spodoptera exigua* 5496  
*Formica* 8087  
 Geometridae 6094  
*Gryllotalpa africana* 7180  
 kiwifruits, insect pests 11911  
*Laris* 6975  
*Lasius* 10080  
*Lespedeza*, *Dichomeris lespedezae* 11119  
*Lycium chinense*, *Aceria macrodonis*  
 7982  
*Nilaparvata lugens* 5835  
 Noctuidae 11375-11376  
 ornamental woody plants, *Tarsonemus*  
 12026  
 Orthoptera 10086  
*Oxya velox* 5192  
 Phytoseiidae 2036  
*Pinus koraiensis*  
   insects 7946  
   soil arthropods 7946  
*Pinus thunbergiana*, *Matsucoccus*  
*thunbergiana* 7947



- Korea Republic cont.**  
*Pinus thunbergii*, *Matsucoccus thunbergiana* 5672  
 plant protection 2260  
*Rhyacionia* 7288  
 rice  
   Delphacidae 11748  
   *Laodelphax striatella* 11747  
   *Nilaparvata lugens* 10448  
     predators 5437  
 Scarabaeoidea 10082  
*Thecodiplosis japonensis*, natural enemies 2705  
 Tipulidae 6951  
 trees  
   *Eriococcus lagerstroemiae* 6025  
   *Locastra muscosalis* 6701  
 Tryphonini 10085  
*Typhlodromus wonkooi* 2036  
 woody plants, Acari 3418
- Kradibia**  
*Ficus*  
   Australasia 10102  
   pollution 10102  
   taxonomy 10102
- Kraussaria angulifera**  
*Pennisetum americanum*  
 Mali 5433  
 yield losses 5433
- Kumquats**, *Monacrostichus malaysiae*, Malaysia 6967
- Kunzea**, *Wingia* group, Australia 6981
- Kuwait**, Isopoda 2040
- Kuwanina rubra**  
 biology 9271  
 natural enemies 9271  
 parasitoids 9271
- Kytorhinus sharpianus**  
 biology  
   diapause 3925  
   environmental factors 7170, 9336  
   reproduction 3925  
*Sophora flvaescens* 3925
- Labiatae** (see Lamiaceae)
- Labidura riparia**  
 biology, behaviour 1084  
 ecology, population dynamics 8810  
 groundnuts, fields, South Africa 8810  
 prey, *Bleddius* 11438
- Labiduridae**, morphology 5844
- Labidiidae**, morphology 5844
- Lablab**, *Helicoverpa armigera* 7638
- Lablab niger** (see *Lablab purpureus*)
- Lablab purpureus**  
*Aphis craccivora* 8189  
 Orissa 1490  
 commodities, *Callosobruchus maculatus* 834  
 habitats, *Euschistus heros*, Parana 5395  
*Helicoverpa armigera*, India 1521  
 insecticides, residues 9773  
 pesticides, residues 578  
*Tetranychus* 11830
- Labops**  
*Agropyron*, North America 10745  
 bibliographies 10745
- Laboulbenia**, hosts, *Bembidion* 1252
- Laboulbeniales**  
 distribution, Great Britain 1251  
 forests, Poland 10442  
 hosts  
   arthropods 6234  
   Coleoptera 1251  
 Poland 6234
- Lacanobia oleracea**  
 cauliflowers, Belgium 11809  
 monitoring, traps 11809  
 parasitoids 315  
 physiology, endocrine system 11209
- Laccaria laccata**, *Proisotoma minuta* 5676
- Laccotrephes griseus**, pathogens 1265
- Laccotrephes ruber**, biochemistry, glands 2904
- Lachnaeus crinitus**  
 Asteraceae, Europe 8005  
 distribution, Europe 8005
- Lachninae**  
 Brazil 2865  
 taxonomy 2865
- Lachnosterna submucida**  
 biology 11711
- Lachnosterna submucida cont.**  
 cereals, Mexico 11711
- Lachnosterna torta**  
 biology 11711  
 cereals, Mexico 11711
- Lachnus tropicalis**  
*Castanea crenata*, Honshu 2098  
*Glochidion puberum*, Zhejiang 6787  
*Polyrhachis vicina*, interactions 6787  
 predators 2098
- Lactarius uvidus**, extracts, antifeedants, insect pests 1401
- Lactic acid**, control, *Varroa jacobsoni*, *Apis mellifera* 4123
- Lactobacillus rhamosus**, hosts, *Plutella xylostella* 370
- 15,16- $\gamma$ -Lactones**, antifeedants, *Spodoptera littoralis* 2735
- 16,15- $\gamma$ -Lactones**, antifeedants, *Spodoptera littoralis* 2735
- Lactuca sativa** (see Lettuces)
- Lactuca sativa subsp. longifolia**, *Frankliniella occidentalis* 6263
- Ladoga camilla**  
 parasitoids 8288  
 woodlands, UK 8288
- Laelia coenosa**  
 biology 8674  
 grasses  
   damage 8674  
   Hunan 8674  
 Jiangsu 11455
- Laelius pedatus**  
 biology, population dynamics 8293  
 hosts, *Anthrenus* 8293
- Laetilia coccidivora**, prey, *Toumeyella lig-numvitae* 11
- Laeivacaulis alte**  
 biochemistry, enzymes 1882  
 predators 5199
- Laevicephalus**  
 ecology 6518  
 grasses, USA 6518
- Lagenaria siceraria**  
*Aulacophora foveicollis* 638  
*Bactrocera cucurbitae* 11837  
 Rajasthan 6618  
*Bactrocera depressa*  
   damage 6599  
   Korea Republic 6599  
 Hemiptera, Uttar Pradesh 6615
- Lagerstroemia indica**  
*Homalodisca coagulata* 10003  
*Sarucallis kahawaluokalani*, Louisiana 2719
- Lagerstroemia japonica**, *Eriococcus lagerstroemiae*, Korea Republic 6025
- Lagium atroviolaceum**, morphology 55
- Lagocheirus araneiformis**, distribution, Bahamas 9370
- Lagoons**, pesticides, residues 3402, 4296
- Lagriidae**  
*Eucalyptus*, Espirito Santo 3637  
 monitoring, traps 3637
- Lakes**  
 insecticides  
   degradation 2377  
   residues 6383  
 sediment, pesticides, residues 6380
- Lambdina athasaria** (see *L. fervidaria athasaria*)
- Lambdina fervidaria athasaria**  
*Acer*, Vermont 5658  
 biology 2708  
 Connecticut 4379  
 morphology 5841  
 natural enemies 2708  
 pathogens 5658  
 pheromones 4379  
*Tsuga*, Connecticut 2708
- Lambdina fiscellaria**  
 biological control agents, evaluation 9528  
 monitoring, traps 1890  
 morphology 5841  
 parasitoids 1215, 9528
- Lambdina fiscellaria fiscellaria**  
 control 5253  
 parasitoids 8280  
 pathogens 10428  
 pheromones 1890
- Lambdina fiscellaria lugubrosa**  
 biology, behaviour 1890  
 forest trees, British Columbia 1890, 6800  
 pheromones 1890
- Lamiaceae**  
 bibliographies 2819  
*Europiella*, Holarctic Region 11127  
 odours, effects, *Myzus persicae* 7981
- Lamium album**  
*Cryptomyzus alboapicalis*, Netherlands 1555  
*Sehirus triguttulus*, Hokkaido 5044
- Lamium maculatum**, *Cryptomyzus ulmeri*, Netherlands 1555
- Lamium purpureum**, *Sehirus triguttulus*, Hokkaido 5044
- Lamphygma exigua** (see *Spodoptera exigua*)
- Lampides boeticus**  
 control, chemical control 9771  
 cowpeas, Egypt 9771  
 pigeon peas  
   Delhi 9760  
   varietal susceptibility 9760
- Lampito mauritii**, insecticides, effects 6377
- Lamponius portoricensis**  
 biology, behaviour 3686  
 ecology, habitats 3687  
 food plants, Puerto Rico 3686-3687
- Lampra festiva**  
 control 12031  
 ornamental conifers, Switzerland 12031
- Lampteromyces japonicus**, *Oxyporus japonica*, Honshu 7992
- Lampyridae**, books 6926
- Landfills**, organochlorine compounds, residues 1383
- Lanelater**  
 forest trees, India 1640  
 morphology 1640  
 taxonomy 1640
- Lanelater notodonta**, *Acacia*, Sudan 6776
- Languriidae**  
 cycads  
   Mexico 1638  
   pollination 1638
- Lannea coromandelica**, *Tenuipalpus sanyaensis*, Hainan 11132
- Lannea grandis** (see *L. coromandelica*)
- Lantana camara**  
*Agraulis vanillae* 12058  
 biological control agents, evaluation 10025  
 control, biological control 5720, 11446  
 extracts  
   effects, *Callosobruchus maculatus* 8952  
   insecticidal properties 8952  
 habitats, *Stethoconus praefectus*, Karnataka 11446  
*Teleonemia scrupulosa* 8979
- Lao**, *Hildeaehirschmannia coleopterophila* 8065
- Laodelphax striatella**  
 biochemistry, enzymes 8178  
 biology  
   behaviour 565  
   reproduction 67, 10733  
 control  
   chemical control 3466  
   cultural control 11747  
 cytology 10199  
 ecology  
   mortality 7697  
   population dynamics 11747  
 insecticides  
   resistance 1001, 8178  
   toxicity 3333, 7541  
 millets, resistance 565  
 parasitoids 7697, 10727  
 pathogens 4151, 11511  
 plant extracts, antifeedants 565  
 plant pathogens, transmission 576, 10733, 11747  
 rice  
   Hokkaido 10727  
   Jiangsu 10733  
   Korea Republic 11747  
   resistance 576, 7697  
   Vietnam 7697  
   yield losses 11747  
   Zhejiang 3466



- Laodelphax striatella** cont.  
symbionts 9477
- Laphygma exigua** (see *Spodoptera exigua*)
- Larch** (see *Larix*)
- Lardoglyphus konoii**  
biology, behaviour 98  
pheromones 98
- Larerrannis orthogrammaria**, distribution,  
Korea Republic 6094
- Larinioides cornutus**  
biology, behaviour 6058  
New York 6058
- Larinioides scopetarius**, pesticides, effects  
446
- Larinus curtus**  
biology 8977  
*Centaurea solstitialis*, Greece 8977  
control, *Centaurea solstitialis* 8977
- Larinus cynarae**  
genetics 12053  
*Onopordum illyricum*, France 12053
- Lariophagus distinguendus**  
biology, behaviour 10054  
hosts, Coleoptera 10248
- Laris**  
Korea Republic 6975  
taxonomy 6975
- Larix**  
*Dasineura laricis*, Europe 1826  
*Dendrolimus superans*  
outbreaks 780  
Russia 780  
forests  
Hymenoptera, Hebei 3662  
*Torymus laricis*, Europe 1826  
*Zeiraphera*, Hebei 3662
- Larix decidua**  
insect pests, resistance 8931
- Ips cembrae***  
Germany 781  
resistance 781
- Larix europaea**, *Adelges laricis* 5022
- Larix kaempferi** (see *Larix leptolepis*)
- Larix laricina**  
monoterpenes, toxicity, *Dendroctonus*  
12005  
*Pristiphora erichsonii*  
damage 3661  
interactions 3661  
Quebec 2712, 3661
- Larix leptolepis**  
*Dendroctonus micans* 5662  
*Zethenia rufescentaria*  
Hokkaido 10976  
outbreaks 10976
- Larix occidentalis**  
*Coleophora laricella*  
British Columbia 779  
damage 779
- Larrea tridentata**, insect pests, damage 3488
- Larus argentatus**, insecticides, effects 4306
- Larus glaucescens**, insecticides, effects 2291
- Larus novaehollandiae**, insecticides, residues 4311
- Larus occidentalis**, eggs, insecticides, residues 11648
- Larvacarus transitans**  
control, cultural control 3564  
*Ziziphus mauritiana*, Rajasthan 3564
- Lasiocampidae**  
*Fagus*, Slovakia 3642  
parasitoids 10372
- Lasioderma serricorne**  
biology  
behaviour 4943, 6898  
reproduction 9005  
cassava, commodities 4483  
cereal grains 11040  
control  
chemical control 11040  
irradiation 12075  
cytology 10199  
dog foods, Puerto Rico 6884  
insecticides, resistance 8019  
parasitoids 6884  
physiology, secretions 4943  
stored products 9005  
tobacco  
commodities 6898, 12075  
Andhra Pradesh 8019
- Lasioptera**  
ecology, habitats 4462  
parasitoids 4462  
*Trifolium pratense*, Germany 4462
- Lasioptera chichindae**  
biology, behaviour 637  
control, cultural control 637  
*Trichosanthes cucumerina*  
galls 637  
Sri Lanka 637
- Lasioptera ephedricola**  
*Aureobasidium pullulans*, interactions  
6822  
*Ephedra trifurca*, galls 6822
- Lasioptera yadokariae**  
*Euonymus japonicus*, Japan 6802  
*Neolitsea sericea*, Japan 6802  
*Persea*, Japan 6802  
taxonomy, new species 6802
- Lasiurus borealis**, prey, Heterocera 9348
- Lasiurus cinereus**, prey, Heterocera 9348
- Lasius**  
biology, behaviour 283-284  
*Planococcus vovae*, interactions 782
- Lasius alienus**  
Korea Republic 10080  
taxonomy 10080
- Lasius brunneus**  
*Acer campestre*, UK 11999  
Korea Republic 10080  
*Stomaphis longirostris*, interactions  
11999  
taxonomy 10080
- Lasius emarginatus**, Austria 1189
- Lasius flavus**  
biology, behaviour 6813  
Korea Republic 10080  
*Pachyneuron muscarum*, interactions  
6813  
*Polyommatus icarus*, symbiosis 1082  
*Psylla*, interactions 6813  
taxonomy 10080
- Lasius fuliginosus**  
Belgium 9413  
biology, behaviour 9413  
interactions, *Homoeusa acuminata* 9413  
Korea Republic 10080  
pheromones 9413  
taxonomy 10080
- Lasius niger**  
Idaho 2045  
nests, structure 10363  
*Tetramorium caespitum*, competition  
2045  
Wisconsin 10363
- Lasius niger**  
*Alloxysta brevis*, interactions 7204  
*Aphis fabae*, interactions 327, 7204  
*Atelura fornicaria*, interactions 1189  
Austria 1189  
biochemistry, venoms 8135  
biology  
behaviour 2098, 5136, 6813, 7181,  
7204, 9219, 11330  
development 5132  
Coccinellidae, interactions 8256  
diets 9219  
Korea Republic 10080  
*Ligularia dentata*, UK 7181  
*Pachyneuron muscarum*, interactions  
6813  
pheromones 1189  
prey  
Aphididae 2098  
Coccinellidae 9219  
*Psylla*, interactions 6813  
soil, interactions 9415  
taxonomy 10080  
UK 8256
- Lasius spathepus**  
Korea Republic 10080  
taxonomy 10080
- Lasperryesia pomonella** (see *Cydia pomonella*)
- Lasperryesia molesta** (see *Cydia molesta*)
- Lasperryesia pomonella** (see *Cydia pomonella*)
- Lasperryesia pomonella** (see *Cydia pomonella*)
- Latheticus oryzae**, cereal grains, South Carolina 4809
- Lathridiidae**  
biology, feeding 11715  
cereals, fields, Denmark 11715
- Lathromeris ovidae**  
hosts, *Maliarpha separatella* 1212  
rice, habitats, Africa 1212
- Lathyrus**  
*Aphis craccivora*, Bihar 7727  
habitats, predatory insects, Bihar 7727
- Lathyrus latifolius**, *Bruchus affinis*, France 8686
- Lathyrus sativus**  
*Bruchus pisorum*, Chile 4466  
commodities, *Acanthoscelides obtectus*  
12066  
extracts, effects, *Bruchus pisorum* 4466
- Lathyrus sylvestris**, *Bruchus affinis*, France 8686
- Lathyrus vernus**  
invertebrates  
damage 8950  
Sweden 8950  
Mollusca  
damage 8950-8951  
Sweden 8950-8951
- Latin America**  
insects, books 6923  
oil palms, Tingidae 4623  
pesticides, usage 9620
- Latrodectus geometricus**  
ecology, population dynamics 1417  
prey, *Atherigona soccata* 1417  
sorghum, fields, Burkina Faso 1417
- Latrodectus mactans**  
predators 7012  
South Carolina 7012
- Latrodectus mactans tredecimguttatus** (see *Latrodectus tredecimguttatus*)
- Latrodectus tredecimguttatus**, venoms, effects, *Helix pomatia* 6217
- Latvia**, insect pests, pathogens 3260
- Lauraceae**  
extracts  
effects, insect pests 803-804  
toxicity, *Drosophila melanogaster*  
804  
insecticidal properties 803-804
- Lauritrioza alacris**  
biology 6809  
control, chemical control 6809  
*Laurus nobilis*, Albania 6809
- Laurus**, insects, Kalimantan 728
- Laurus azorica**  
extracts  
effects, insect pests 804  
toxicity, *Drosophila melanogaster*  
804  
insecticidal properties 804
- Laurus nobilis**  
*Aonidia lauri*, Italy 10005  
habitats, parasitoids, Italy 10005  
*Lauritrioza alacris*, Albania 6809
- Lauxaniidae**  
biology, feeding 11715  
cereals, fields, Denmark 11715  
Korea Democratic People's Republic  
10110  
taxonomy 3733, 10110
- Lavandula luisieri**, extracts 3319
- Lawns and turf**  
*Anomala cuprea* 8718  
*Anomala octiescostata*, Honshu 1891  
*Anomala schoenfeldti*, Honshu 4952  
*Atenius spretulus*, Ohio 10009  
*Blitopertha orientalis*, Connecticut 6815  
*Cyclocephala hirta*, California 791  
*Cyclocephala pasadenae* 10987  
*Formica exsectoides*, West Virginia 580  
habitats, beneficial insects, Tianjin 10008  
insect pests 2725  
UK 10988-10989  
insecticides, residues 5685, 10635  
*Parapediasia teterrella*, New Mexico  
4758  
pest control  
Georgia 4757  
Honshu 5685  
Washington 3663  
*Popillia japonica*, New Jersey 4755  
*Scapteriscus*, Florida 4756  
Scarabaeidae, Florida 10007



**Lawns and turf cont.**

- Spodoptera depravata*, Tianjin 10008  
*Stenobothris stigmaticus*, UK 3669  
*Tipula paludosa*, Washington 5450

**Lead**

- effects  
*Aiolopus thalassinus* 3314  
*Carausius morosus* 1309  
*Helix aspersa* 4134  
insects 1308  
*Lymantria dispar* 11563  
*Neochetina eichhorniae* 3692  
invertebrates 1307  
pollutants, *Arianta arbustorum* 5202  
*Porcellio scaber*, effects 1306  
synergism 10546

**Lead arsenate**, residues, soil 9645**Leaf beet** (see *Spinach beet*)**Leafy vegetables**, insect pests, America 11812**Leather jackets** (see *Tipulidae*)**Lebeckia**, habitats, *Parasitizopus armaticeps*, South Africa 7726**Lecaniidae** (see *Coccidae*)**Lecanodiaspis sardoa**  
morphology, glands 5840  
taxonomy 5840**Lectins**, effects, *Acyrtosiphon pisum* 11566**Ledesmodina auricollis**, *Phaseolus vulgaris*, Venezuela 7737**Ledra hyalina**

- Pyrus bretschneideri*, Anhui 11082  
taxonomy, new species 11082

**Leeks** (*Allium porrum*)

- Acrolepis sapporensis*, Korea Republic 5487  
*Acrolepiopsis assectella*, Europe 97  
arthropod pests 883  
books 883  
pest control, Poland 1501  
*Thrips tabaci*  
Belgium 616  
Germany 10796  
Thysanoptera, Belgium 10795

**Leersia hexandra**

- Nephotettix malayanus*, Malaysia 6488  
*Nephotettix nigropictus*, Malaysia 6488

**Legislation**

- insecticides  
Costa Rica 422  
European Communities 425  
pesticides  
Europe 10530  
USA 2265

**Legumes**

- commodities, arthropod pests 12082  
insect pests 863

**Leguminivora glycinivorella**

- parasitoids 9063  
soyabeans  
Anhui 8692  
Heilongjiang 10753  
resistance 6537

**Leguminivora ptychora**

- cowpeas, Benin 6547  
ecology, population dynamics 6547

**Leguminosae** (see *Fabaceae*)**Leiodes**, taxonomy 1845**Leiophron uniformis**

- biology, behaviour 5537  
control, *Lygus hesperus*, evaluation 5537  
hosts, *Lygus hesperus* 4059, 5537

**Lema melanofrons**

- Physalis viscosa* 917  
taxonomy, new species 917

**Lema melanophos** (see *Oulema melanoplus*)**Lema oryzae** (see *Oulema oryzae*)**Lema trilinea**, taxonomy, synonyms, *Lema trilinea daturaphila* 917**Lema trilinea daturaphila**, taxonomy, synonyms of *Lema trilinea* 917**Lemna minor**, insecticides, residues 2349**Lemna swinhoei** (see *Coelophora saucia*)**Lemoniidae**, taxonomy, revisions 4842**Lemons** (*Citrus limon*)

- Anoplophora versteegii*, Assam 9884  
*Aonidiella aurantii*, California 665  
*Biprorulus bibax*, New South Wales 664  
*Ceratitis capitata* 10873

**Lemons cont.**

- commodities  
*Anastrepha suspensa*  
Florida 1779  
resistance 1779  
pesticides, residues 7572  
*Dialeurodes citri*, Spain 6685  
insecticides, residues 468, 11450  
*Phyllocnistis citrella*  
damage 5552  
India 5552  
*Planococcus citri*, Karnataka 5555  
*Poecilocus pictus* 2403  
*Saissetia oleae*, Italy 11900

**Lemyra**

- coffee, Karnataka 700  
natural enemies 700

**Lens culinaris** (see *Lentils*)**Lens esculenta** (see *Lentils*)**Lentils** (*Lens culinaris*)

- Aphis craccivora*, Bihar 7727  
*Bruchus pisorum*, Chile 4466  
commodities, *Callosobruchus maculatus* 5732  
*Contarinia lentis*, Czech Republic 1481  
extracts  
effects  
Aphididae 11564  
*Bruchus pisorum* 4466  
fields, insects, Turkey 1482  
habitats, predatory insects, Bihar 7727  
insecticides, effects 8696

**Lentinula edodes**

- Dacne japonica*, Japan 2739  
insecticides, residues 12051

**Leontodon autumnalis**

- Diptera  
Norway 5705  
pollination 5705

**Leontopodium alpinum**, insects, pollination 8934**Leperisus varius** (see *Hylesinus varius*)**Lepidota negatoria**, biochemistry, enzymes 5879**Lepidota noxia**, biochemistry, enzymes 5879**Lepidota picticollis**

- control, chemical control 7877  
sugarcane, Queensland 7877

**Lepidium virginicum**, *Plutella xylostella* 2749**Lepidocephalichthys thermalis**, insecticides, toxicity 5322**Lepidochelys kempi**, insecticides, residues 3372**Lepidocyrtus lanuginosus**, predators 7571**Lepidocyrtus lignorum**, forests, Honshu 9989**Lepidoglyphus destructor**

- cereals, commodities 850  
control  
chemical control 4802  
controlled atmospheres 850  
ectoparasites 6879  
stored products, Italy 6879  
wheat, commodities, UK 4802

**Lepidomyctides nagaii**

- Bambusa multiplex*, South East Asia 6836  
taxonomy, new species 6836

**Lepidoptera**

- Abies balsamea*, New Brunswick 5678  
attractants 1650  
*Bacillus thuringiensis*, resistance 7382  
*Betula papyrifera*, Quebec 737  
bibliographies 11136  
biochemistry  
digestive system 2928  
enzymes 8346  
juvenile hormones, metabolism 9208  
metabolism 9169  
proteins 9199  
biology  
behaviour 737, 3918, 8967, 11692  
reviews 5050  
life cycle 6029  
migration 1167  
reproduction, models 9133  
cabbages  
damage 6584  
Hokkaido 6584-6585, 9800

**Lepidoptera cont.****cabbages cont.**

- New Zealand 6577  
cell lines, pathogens 3269  
collections 6974  
conservation 3918, 9354  
control 3639  
biological control 388, 6821  
chemical control 1644, 4650, 6480, 6715, 9800  
integrated control 11963  
mating disruption 11692  
reviews 9536  
*Pteridium aquilinum* 830  
trapping 10483

**cotton**

- China 11963  
Egypt 1633  
Indian Punjab 713  
Karnataka 4650  
Maharashtra 8837  
resistance 2632  
yield losses 713, 8837  
Czech Republic 234  
*Dicorynia guianensis*  
damage 6771  
French Guiana 6771  
distribution  
Denmark 1152  
Germany 1164  
Hungary 3118  
Kenya 4049  
Lithuania 1153  
Poland 1154  
Puerto Rico 10326  
Russia 10296  
Spain 4685  
Sweden 10299  
UK 10320, 11384

**Dysauxes famula**, distribution, Switzerland 9363**ecology** 197, 3024, 4677

- diversity 8852  
habitats 234, 1122, 1133, 3626, 6081  
insect communities 10958  
population dynamics 191, 10887  
models 1136, 8294  
seasonal fluctuations 12015

**Eucalyptus**

- Bahia 739  
Brazil 3639  
damage 5638  
Northern Territory 5638  
*Eucalyptus sieberi*, Tasmania 4675  
evolution 9109  
Fagaceae, Slovakia 11987  
Florida 10398  
forecasting 10887  
forest trees

- Europe 1647  
Finland 2657  
North America 1647  
Poland 1644  
Puerto Rico 3626

**forests**

- Costa Rica 4677  
Virginia 11986  
West Virginia 7594

**genetics**

- chromosomes 5009  
DNA, extraction 3135  
genetic diversity 10239  
pheromones 925  
genitalia, microscopy 7305  
Germany 1122, 1650  
groundnuts, South Carolina 6715  
Hungary 10483  
insecticides, pathogenicity 11571  
insects as food 11470  
kiwifruits, France 1561  
Korea Democratic People's Republic 6974

**Macaranga hosei**, Malaysia 814**Madagascar** 3024**maize**

- commodities  
damage 4800  
Mexico 4800  
monitoring, traps 11692  
morphology 11157  
eggs 10132



**Lepidoptera cont.**

- natural enemies 4677
- nature conservation, Netherlands 1117
- Netherlands 1167
- New Zealand 1133
- Paraserianthes falcata*, India 2679
- parasitoids 3964, 3966, 8850, 11106
- pathogens 3273, 7956, 8860, 10406, 10433
- pheromones 1400, 1907, 11692
- reviews 2388, 7056
- physiology
  - digestive system 2930
  - endocrine system, reviews 1907
  - fat body, reviews 7097
  - hormones 5889
  - immunity, reviews 10406
  - pheromones, reviews 11191
  - sense organs 11692

**Picea abies**

- Poland 1699
- Slovakia 12015
- Pinopsida, Canada 10958
- Pinus sylvestris*, UK 2696
- predators 248, 1661, 3063, 5624, 8262, 8754, 8869, 9605, 10317

**Prosopis cineraria**

- pollination 3649
- Rajasthan 3649

**Protea repens**

- Quercus, Mexico 8849
- Quercus alba*, Missouri 8869
- Quercus crispula*, Hokkaido 6029
- rain forests, Costa Rica 8852
- rearing techniques, effects, man 9401
- Reunion 8435
- Rhododendron*, Georgia 1711
- rice, Meghalaya 6480
- Robinia pseudoacacia*, Honshu 2687
- Scandinavia 2841
- Sesia melanocephala*, distribution, Switzerland 9363
- Slovenia 5083
- Sophora japonica*, Honshu 2687
- soybeans, Minas Gerais 7729
- Spain 7278
- stored products, Costa Rica 3704
- Switzerland 254
- taxonomy, catalogues 1836
- tobacco, resistance 5269
- tropical forests, Africa 5624
- UK 6081, 11382
- books 8046
- wild plants
  - Europe 8967
  - pollination 8967
- Ziziphus sativa*, China 10887

**Lepidosaphes beccii**

- Citrus, South Africa 7815
- control, biological control 7815
- ecology, population dynamics 6686
- oranges, Spain 6686

**Lepidosaphes destefanii** (see *Mytilaspis flava*)**Lepidosaphes gloverii**

- Citrus, South Africa 7815
- control, biological control 7815
- parasitoids 6969

**Lepidosaphes salicina**

- ecology, population dynamics 2654
- natural enemies 2654
- shelterbelts, Liaoning 2654

**Lepidosaphes ulmi**

- Fabaceae, Israel 1723
- natural enemies 1723

**Lepidozamia**, insects, Australia 5622**Lepomis macrochirus**

- insecticides
  - effects 2284-2285, 9603, 11625
  - metabolism 6353

**Lepropus lateralis**, mangoes, West Bengal 5558**Leptacris vittata**

- distribution, Tamil Nadu 3088
- ecology 3088

**Leptomys vesiculosa**

- prey, Lepidoptera 5624
- tropical forests, Africa 5624

**Leptophantes annulatus**, taxonomy 915**Leptophantes tenuis**

- biology, behaviour 7336

**Leptophantes tenuis cont.**

- ecology, population dynamics 11929
- fields, UK 7336
- maize, fields, Belgium 5418
- monitoring, traps 11929
- olives, orchards, Italy 11929

**Leptinotarsa decemlineata**

- aubergines, New Jersey 6612
- biochemistry
  - chemical composition 4974
  - enzymes 440
  - metabolism 9170
- biological control agents, evaluation 2526
- biology 6554
  - behaviour 1494, 4429, 4490-4491, 4496, 7210, 8732, 9278, 9785, 10783
  - environmental factors 5474, 6071
  - oviposition 4494
- cell lines 8338
- commodities 10050
- control 1492, 6559, 10786, 10788
  - biological control 6558, 6612, 9775-9776, 9783
  - chemical control 7757, 8711, 9782, 10050, 11827
  - cultural control 3502
  - integrated control 4496
  - physical control 4486, 6553
  - trapping 4496
- ecology, population dynamics 9774
- fertilizers, effects 8732
- genetics 4494
  - genes, nucleotide sequences 9235
  - mutations 3873
- growth regulators, effects 3410
- insecticides
  - effects 2278, 9785
  - pathogenicity 8436
  - resistance 440, 1328, 1333, 4261, 5244, 6325, 6552, 7756, 8495, 9223, 9567, 10547
  - models 4269
  - toxicity 455, 4266
- monitoring 8710, 9782
- traps 5549
- morphology, digestive system 1857
- New York 6071
- parasitoids 7753
- pathogens 1247, 2162, 4158, 5244, 10506
- Pennsylvania 8495
- pesticides, resistance 7527
- physiology
  - membranes 9167
  - nervous system 1896
  - sense organs 7210
  - water relations 5949
- plant extracts
  - antifeedants 605, 1401, 10680
  - effects 8487
  - toxicity 2733

- Poland 1328, 8471
- potatoes 605, 1494, 4102, 4489-4491, 6551, 6554, 10783, 10788, 11795
- Belarus 11794
- British Columbia 4429
- damage 8706
- Delaware 9775
- Germany 1492
- Greece 8711
- Hungary 2733
- Indiana 3502
- Massachusetts 4496, 7753
- New Brunswick 4486, 6553
- New Jersey 7757, 9776
- Pennsylvania 6552, 7756
- Quebec 8710, 9783
- resistance 2504, 9785
- Switzerland 6558
- Ukraine 6559, 9774
- Virginia 9782
- yield losses 8710, 9782

- potatoes × *Solanum berthaultii*, resistance 6563
- predators 1949, 2526, 4102, 8436
- remote sensing 6551
- sampling 4542
- Solanum* 4494
- resistance 5474, 9778

**Leptinotarsa decemlineata cont.**

- Solanum berthaultii*, resistance 5484, 6554
- Solanum viarum*, Florida 11024
- tomatoes 8732
  - New Jersey 11827
  - USA 10547
- vegetables, Greece 2526

**Leptinotarsa defecta**

- aubergines 8976
- control
  - Solanum elaeagnifolium* 11029
  - crops 8976
- Solanum elaeagnifolium*, South Africa 8976

**Leptinotarsa juncta**

- biology, behaviour 3059
- genetics, natural selection 3059
- parasitoids 3059
- Solanum carolinense*, Virginia 3059

**Leptinotarsa texana**

- aubergines 8976
- control
  - Solanum elaeagnifolium* 11029
  - crops 8976
- pathogens 11479
- Solanum elaeagnifolium*, South Africa 8976

**Leptochloa chinensis**, *Creatonotos gangis* 3456**Leptocoris augur**

- endoparasites 6258
- Schleichera oleosa* 6258

**Leptocoris trivittatus**

- biochemistry, chemical composition 339
- insects as food 339
- Michigan 339

**Leptocoris acuta**

- control 3455
- rice
  - damage 9732
  - India 3455
  - Orissa 9732

**Leptocoris chinensis**, insecticides, effects 10561**Leptocoris oratorius**

- control, chemical control 6480

**rice**

- damage 9732
- Meghalaya 6480
- Orissa 9732

**Leptodermus minutus**, taxonomy, synonyms,

- L. scortecii* 11090

**Leptodermus scortecii**, taxonomy, synonyms, of *L. minutus* 11090**Leptodictya tabida**

- ecology, population dynamics 4636
- sugarcane
  - Florida 4636
  - resistance 4636

**Leptogenys**, prey, Dermaptera 5135**Leptogenys attenuata**

- biology, behaviour 5081
- forests, South Africa 5081
- physiology, bioenergetics 5081

**Leptogenys nitida**

- biology, behaviour 5081
- forests, South Africa 5081
- physiology, bioenergetics 5081

**Leptogenys schwabi**

- biology, behaviour 5081
- forests, South Africa 5081
- physiology, bioenergetics 5081

**Leptoglossus australis**

- biology, migration 4543
- Cucurbitaceae, Japan 4543
- kairomones 7800
- Momordica charantia*, Japan 7800
- parasitoids 7800

**Leptoglossus occidentalis**, distribution, British Columbia 8319**Leptoglossus zonatus**

- biology 9377
  - behaviour 557
  - development 7646
- cereals 7646
- maize, Parana 557
- pheromones 557
- pomegranates, Sao Paulo 8792
- rearing techniques 9377



- Leptographium abietinum**, vectors, *Dendroctonus pseudotsugae* 8995
- Leptographium procerum**  
vectors  
Curculionidae 3284  
*Hylobius abietis* 4734, 6780
- Leptographium terebrantis**  
vectors  
*Dendroctonus pseudotsugae* 8995  
*Ips pini* 10966
- Leptographium wingfieldii**, Scolytidae, interactions 2695
- Leptomastidea matritensis**  
hosts, *Planococcus vovae* 782  
*Juniperus*, habitats, Italy 782
- Leptomastix dactylopii**  
biology  
behaviour 5157  
development 10141  
control, *Planococcus citri*, *Citrus* 5555  
hosts  
*Planococcus* 10141  
*Planococcus citri* 5157, 5555  
pesticides, effects 5340  
rearing techniques 10141
- Leptomonas**, hosts, *Dysdercus peruvianus* 7390
- Leptomonas seymouri**, hosts, *Dysdercus peruvianus* 7390
- Leptomymex erythrocephalus**, morphology, venom glands 8101
- Lepton**, taxonomy 1843
- Leptopharsa gibbicarina**  
Colombia 719  
control  
biological control 719, 4623  
chemical control 4623  
oil palms, Latin America 4623  
pathogens 719
- Leptopharsa hevae**  
*Hevea brasiliensis*, Amazonas 719  
pathogens 719
- Leptophos**  
chemistry 10515  
toxicity, Noctuidae 8684
- Leptopilina heterotoma**  
biology, behaviour 3967, 9437, 11311  
genetics, behaviour 11439  
hosts  
*Drosophila* 3967, 11439  
*Drosophila melanogaster* 8361, 11311  
*Drosophila subobscura* 9437
- Leptospermum**, Wingia group, Australia 6981
- Leptosphaeria nodorum**, *Sitobion avenae*, interactions 7661
- Leptosphaeria salvinii** (see *Magnaporthe salvinii*)
- Leptotes trigemmatous**  
Chile 9086  
parasitoids 9086
- Leptothorax**  
biology, reproduction 7174  
*Harpagoxenus sublaevis*, interactions 10200  
Montana 9411
- Leptothorax acervorum**  
biochemistry, enzymes 10234  
Europe 10234  
genetics  
genes 5143  
genetic variation 10234  
pathogens 9411
- Leptothorax allardycei**, ecology, survival 4086
- Leptothorax longispinosus**  
biology  
behaviour 2000  
reproduction 9414  
ecology, population dynamics 9414  
prey, *Utehisia ornatrix* 2000  
USA 9414
- Leptothorax mesocorum**, pathogens 9411
- Leptothorax recedens** (see *Temnothorax recedens*)
- Leptothorax tuberosum**, biology, behaviour 9322
- Leptothorax unifasciatus**  
biology, behaviour 11326
- Leptothorax unifasciatus** cont.  
*Chalepoxenus muellerianus*, interactions 11317  
pathogens 9411
- Leptothrips mali**, *Rhododendron*, Georgia 1711
- Leptotilla verreauxi**, insecticides, residues 11614
- Leptusa gaisbergeri**  
Austria 1832  
morphology 1832  
taxonomy, new species 1832
- Lertha sofiae**, interactions, Formicidae 11411
- Lesotho**, *Salix*, *Nematus oligospilus*, natural enemies 10948
- Lespedeza**, *Dichomeris lespedezae*, Korea Republic 11119
- Lespedeza bicolor**, *Fleutiauxia yuae*, Hebei 6949
- Lespesia aletiae**  
*Bromus inermis*, habitats, Indiana 2475  
hosts, *Simyra henrici* 2475
- Lestodiplosis**  
morphology 7671  
wheat, Shaanxi 7671
- Lethal yellowing**, vectors, *Myndus crudus* 6516
- Lethata anophthalma**  
*Eucalyptus cloeziana*  
damage 7913  
Minas Gerais 7913  
parasitoids 7913
- Lethocerus indicus**  
biochemistry  
glands 2904  
muscles 1405
- Lettuce infectious yellows virus**  
insecticides, effects 6696  
vectors, *Bemisia tabaci* 6595, 6696
- Lettuces** (*Lactuca sativa*)  
Aphididae 7780  
Germany 11817  
*Bemisia argentifolii*, California 10794  
*Bemisia tabaci* 9664  
California 6595  
*Chromatomyia syngenesiae* 221  
commodities, pesticides, residues 5736  
fields  
Aphididae, Denmark 622  
Hymenoptera, Arizona 4516  
insect pests, Europe 10812  
*Liriomyza*, Arizona 4516  
*Liriomyza huidobrensis*, Spain 6571  
*Liriomyza trifolii* 11392  
resistance 2527  
*Melanoplus sanguinipes* 8177  
*Milax rusticus* 5198  
*Myzus persicae*  
Arizona 6596  
resistance 9808  
*Nasonovia ribisnigri*, resistance 11818  
pest control 6594  
pesticides, residues, determination 12067  
secretions, effects, Homoptera 9807  
*Systema argentinensis*, Argentina 182
- Leucaena diversifolia**  
*Heteropsylla cubana* 2132  
Indonesia 2676  
resistance 2676  
Reunion 10951
- Leucaena leucocephala**  
*Ferrisia virgata*, Nigeria 8848  
*Heteropsylla cubana* 2132  
Africa 1678  
America 8884  
control 1654  
damage 1678, 8884  
Indonesia 1654  
Reunion 10951
- Leucaena pallida**, *Heteropsylla cubana* 2132
- Leucania loreyi** (see *Mythimna loreyi*)
- Leucanthemum vulgare**, *Argyrotaenia velutinana* 11322
- Leucaspis**, parasitoids 9091
- Leucaspis pini**  
ornamental conifers  
Hungary 8901  
varietal susceptibility 8901
- Leucine**, effects, *Bactrocera cucurbitae* 7029
- Leucinodes orbonalis**  
aubergines 11822  
Andhra Pradesh 9815  
Bangladesh 3526  
Hunan 7794  
Japan 10828  
Orissa 10827  
resistance 9817  
Sri Lanka 1211  
Uttar Pradesh 8744  
West Bengal 9817  
yield losses 8744  
biology  
behaviour 10828  
environmental factors 8744  
life history 7794  
control  
chemical control 3526, 7794, 9815, 10827  
cultural control 11822  
parasitoids 1211  
pheromones 3144
- Leucoagaricus gongylophorus**, *Atta cephalotes*, interactions 3181
- Leucocoprinus gongylophorus**, *Atta sexdens rubropilosa*, interactions 10285
- Leucopholis coneophora**  
biology, behaviour 4625  
cassava 4483  
coconuts, Kerala 4625  
control 4625  
chemical control 4483
- Leucopholis irrorata**  
*Acacia mangium*  
damage 6766  
Philippines 6766  
*Calliandra calothyrsus*, Philippines 2681
- Leucopholis lepidophora**  
biology 3015  
phenology 694  
field crops, Maharashtra 3015  
sugarcane, Maharashtra 694
- Leucopsis**  
biochemistry, defensive secretions 3826  
biology, behaviour 3826  
morphology 4829
- Leucopsis atratula**  
*Abies nordmanniana*, British Columbia 4745  
distribution, British Columbia 4745  
prey, *Dreyfusia piceae* 4745
- Leucopsis glyphinivora**  
prey, *Aphis fabae* 7864  
sunflowers, fields, Hungary 7864
- Leucopomyia** (see *Leucopsis*)
- Leucoptera coffeella** (see *Perileucoptera coffeella*)
- Leucoptera malifoliella**  
biology 7808  
control 7808  
pheromones 2389  
pome fruits, Italy 7808
- Leucoptera scitella** (see *L. malifoliella*)
- Leucoptera spartifoliella**, *Cytisus scoparius*, New Zealand 6849
- Leucospermum conocarpodendron**, Formicidae, South Africa 12055
- Leuronota calycophylli**  
*Calycophyllum spruceanum*, Peru 5654  
taxonomy, new species 5654
- Libellulidae**, lucerne, fields, Libya 3486
- Libya**  
lucerne  
fields, predatory arthropods 3486  
*Spodoptera littoralis* 5458
- Lichens**  
Collembola, Austria 3073  
extracts, effects, *Spodoptera littoralis* 2740
- Ligidium hypnorum**, physiology, digestive system 10177
- Ligularia dentata**, *Lasius niger*, UK 7181
- Ligustrum**, *Deporaus tigris*, Japan 8084
- Ligustrum japonicum**, habitats, *Agelena limbata*, Japan 2110
- Ligustrum tschonoskii**, *Pidonia tsuyukii*, Honshu 5707
- Ligustrum vulgare**, *Atta cephalotes* 5034
- Ligyris subtropicus**, biology, behaviour 3978



- Lilioceris livida**  
biology 5483  
yams, Nigeria 5483
- Lilioceris merdigera**  
control, cultural control 1500  
onions  
Poland 1500  
resistance 1500
- Lilioceris nigripes**, forest trees, Australia 10932
- Lima beans** (see *Phaseolus lunatus*)
- Limacidae**, taxonomy 3737
- Limanda limanda**, organochlorine compounds, residues 10610
- Limax flavus**  
biochemistry, immune response 2153  
morphology 9457
- Limax pseudoflavus**, biology, environmental factors 1094
- Lime**  
effects, *Ariophanta bajadera* 6837  
mixtures, effects, *Ariophanta bajadera* 6837
- Lime trees** (see *Tilia*)
- Limenitis archippus** (see *Basilarchia archippus*)
- Limenitis arthemis arthemis**  
*Basilarchia archippus*, hybridization 7187  
USA 7187
- Limenitis arthemis astyanax**  
*Basilarchia archippus*, hybridization 3896, 7146, 7187  
USA 7146, 7187
- Limes** (*Citrus aurantiifolia*)  
*Ceratitis capitata* 10873  
insecticides, residues 7983  
*Phyllocnistis citrella*  
Florida 11897  
Gujarat 6677  
*Planococcus citri*, Karnataka 5555  
*Polyphagotarsonemus latus*, damage 4385
- Limnobaris**  
Japan 6938  
taxonomy 6938
- Limoniidae**, distribution, Lithuania 1153
- Limonin**, effects, *Hyllobius pales* 2258
- Limothrips denticornis**, grasslands, Poland 8672
- Linalool**  
attractants  
*Cerambycidae* 6801  
*Spilarchia obliqua* 4369  
mixtures, attractants, *Trichoplusia ni* 7891
- (S)-(+)-Linalool**, pheromones, *Trichoplusia ni* 7891
- Linaria dalmanica**, biological control agents, evaluation 6860
- Lincus lobuliger**  
coconuts, Bahia 8806  
control, chemical control 8806
- Lincus malevolus**  
morphology, glands 4885  
pheromones 4885  
physiology, secretions 4885
- Lincus spureus**  
biochemistry, secretions 4886  
morphology, glands 4885-4886  
pheromones 4885  
physiology, secretions 4885
- Lincus tumidifrons**  
biology, life cycle 7867  
oil palms, Colombia 7867  
plant pathogens, transmission 7867
- Lindane**  
analysis 2348  
control  
*Anomala dimidiata*, soyabeans 4471  
*Chilo infuscatellus*, sugarcane 11948  
insect pests, sugarcane 11951  
degradation 11658  
aquatic environment 500  
carnations 4291  
effects  
aquatic organisms 2302  
*Dictyostelium discoideum* 470, 5312  
fowls 6351  
*Gammarus pulex* 8111, 10603  
*Hydra viridissima* 5325
- Lindane cont.**  
effects cont.  
laboratory animals 7595
- Locusta** 1321  
onions, cell culture 7595
- Oreochromis niloticus** 2282  
rabbits 10585  
rainbow trout 8545  
rats 5339, 6364, 8526, 10592, 11632  
soil, microorganisms 503  
soil flora 11650  
*Spodoptera littoralis* 4247  
*Sterna hirsuta* 2342  
extraction, water 502  
intake, man 10576  
nontarget effects  
aquatic invertebrates 8542  
*Brachionus calyciflorus* 1368  
mammals 10579  
poisoning, *Apis mellifera* 5315  
residues  
analysis 3343  
animal products 2345  
aquatic environment 2349  
aquatic organisms 11647  
birds 5323  
carrots, commodities 10604  
*Ceratitis capitata* 3138  
Denmark 9631  
determination 4806, 10604  
extraction 4336  
fishes 2348, 3343  
*Gadus morhua* 5343  
honey 8572  
analysis 10634  
human milk 8535  
invertebrates 6369  
leafy vegetables 3513  
*Lutra lutra* 5324  
man 7561, 8522, 8538  
milk 8517  
*Picea abies* 10968-10969  
*Pinus sylvestris* 5671  
*Platanus vulgaris* 4340  
precipitation 4341  
rain 10661  
rivers 3403, 4329  
salt marshes, sediment 4344  
sediment 493, 5368  
sewage sludge 6381  
waste disposal 11667  
water 1383, 2346, 11661, 11674  
resistance  
*Aphididae* 7543  
*Azotobacter chroococcum* 4278  
*Helopeltis theivora* 3607  
*Hypothenemus hampei* 5293  
toxicity  
aquatic organisms 4285  
*Artemia salina* 4289  
*Cheilomenes sexmaculata* 11611  
*Chrysoperla rufilabris* 4318  
fishes 4314  
guinea pigs 469  
mammals 10569  
rats 10619  
with carbaryl  
control  
insect pests, yams 4483  
*Pyralidae*, sugarcane 3588, 3591  
nontarget effects, soil 11659
- Lindera triloba**  
*Scolytidae*, Japan 8847  
wood, *Scolytidae*, Honshu 9977
- Lindorus lophanthae** (see *Rhyzobius lophanthae*)
- Lineatin**, attractants, insects 1650
- Linepithema humile**  
biology, behaviour 6040, 9310  
*Citrus*, Western Australia 3552  
control  
chemical control 2099, 10473  
trapping 3552  
*Eurhizococcus brasiliensis*, interactions 3995  
grapefruits, orchards, California 8788  
Minnesota 2099  
pheromones 9310  
Western Australia 10473  
woody plants, South Africa 12055
- Linnaemya longirostris**  
fields, Kenya 6427  
hosts, *Helicoverpa armigera* 6427
- Linoleic acid**  
attractants  
*Acrididae* 5446  
*Diabrotica virgifera* 7681  
insect pests 5448  
*Sitophilus zeamais* 10054
- Linoleic aldehyde**, pheromones, *Hyphantria cunea* 11703
- Linolenic acid**  
attractants  
*Acrididae* 5446  
insect pests 5448
- Linseed** (*Linum usitatissimum*)  
*Chromatomyia horticola*, India 11924  
integrated pest management, China 1593  
*Spodoptera litura* 7639
- Linseed oil**, effects, insect pests 4792
- Linum lewisii**  
insects  
Colorado 295  
pollination 295
- Linum usitatissimum** (see *Flax*; *Linseed*)
- Linyphia litigiosa**, biology, reproduction 3209
- Linyphia triangularis**  
*Boronia megastigma*, habitats, Tasmania 1737  
prey, *Ctenarytaina thysanura* 1737
- Linyphiidae**  
Asia 12102  
barley, fields, UK 10701  
biology, behaviour 10701  
crops, fields, Maryland 9755  
ecology, population dynamics 1417, 9755, 11929  
insecticides, effects 5407, 10691  
monitoring, traps 11929  
morphology 10096  
olives, orchards, Italy 11929  
prey  
*Aphididae* 10701  
*Atherigona soccata* 1417  
sorghum, fields, Burkina Faso 1417  
taxonomy 10096  
books 12102  
wheat  
fields  
Netherlands 5407  
UK 10691  
wild plants, UK 7659
- Liometopum luctuosum**, distribution, Idaho 2045
- Lipaphis erysimi**  
biological control agents, evaluation 3291  
biology 6590  
behaviour 8723  
environmental effects 5498  
environmental factors 1590, 10273
- Brassica**  
Delhi 11811  
Haryana 1590  
Himachal Pradesh 2590, 2602  
Indian Punjab 8728  
resistance 2590, 9806, 9912  
Uttar Pradesh 5489
- Brassicaceae**, Zhejiang 3516
- cabbages**  
China 617  
Gujarat 5498  
China 10273  
control, chemical control 1502, 1592, 3587, 4618, 5485, 5497, 5572, 5698, 9796, 9910
- Cucurbitaceae**, Taiwan 10837
- ecology**  
arthropod communities 9349  
distribution 617, 11811  
population dynamics 3516, 5572, 11360
- Eruca vesicaria** 2603  
genetics, chromosomes 1927  
Indian mustard 6590  
Haryana 6592  
India 8723, 10802  
Madhya Pradesh 5497, 5698  
resistance 6592  
yield losses 10802  
insecticides, resistance 7543, 7552



- Lipaphis erysimi* cont.**  
 morphology, wings 10273  
 parasitoids 6183, 6428, 7333  
 pathogens 3291  
 plant extracts, toxicity 8490  
 plant oils, effects 6590  
 plant pathogens, transmission 617, 10837  
 predators 1218, 4101, 5489, 6160, 11611  
 radishes, Indian Punjab 5485  
 rape  
   damage 1592  
   Delhi 1592, 9910  
   Georgia 4618  
   India 5572  
   Shaanxi 9911  
   yield losses 4618  
 sarson, Delhi 1502, 3587  
 toria, Orissa 9796  
 vegetables, Sichuan 9349
- Lipaphis erysimi pseudobrassicae***  
 insecticides, resistance 8498  
 vegetables, Shanghai 8498
- Lipara*, *Phragmites australis***, Europe 812
- Lipara lucens***  
*Phragmites australis*  
 Europe 7997  
 galls 7997
- Lipara similis***  
 parasitoids 1904  
*Phragmites australis*, Austria 11017  
 physiology, respiration 1904  
 weed control, effects 11017
- Liparthrum mandibulare***, distribution, Spain 8304
- Lipoleucopsis* (see *Leucopsis*)**
- Liposcelis***  
 control, chemical control 9013  
 ecology, environmental factors 9013  
 microscopy 10028  
 wheat, commodities, Manitoba 9013
- Liposcelis bostrychophilus***  
 biology, reviews 8020  
 control 8020  
 ecology, reviews 8020  
 foods, UK 8020  
 insecticides, resistance 8020
- Liposcelis entomophilus***, fumigants, toxicity 4798
- Lippia adoensis***  
 extracts  
   effects  
     *Callosobruchus maculatus* 8952  
     *Sitophilus zeamais* 3676  
 insecticidal properties 8952
- Liriodendron tulipifera***  
 insect pests  
 damage 2655  
   models 1651  
 North Carolina 2655
- Liriomyza***  
 control, integrated control 7784  
 culinary herbs, Florida 6832  
 ornamental plants, nurseries, California 9999  
 parasitoids 9576  
 tomatoes  
   California 635  
   resistance 635  
   Venezuela 7784
- Liriomyza artemisiae***  
*Artemisia*, Japan 5722  
 distribution, Japan 5722
- Liriomyza artemisicola***  
*Artemisia*, Japan 5722  
 distribution, Japan 5722
- Liriomyza brassicae***  
 Taiwan 38  
 taxonomy 38
- Liriomyza bryoniae***  
 control 2492  
   biological control 11828  
 ecology, population dynamics 2492  
 greenhouse crops, Russia 11828  
 horticultural crops, Europe 2212  
 parasitoids 11828  
 pathogens 11520  
 peas, Taiwan 2492
- Liriomyza caulophaga***, *Portulaca oleracea*, Australia 3695
- Liriomyza chinensis***  
 Taiwan 38
- Liriomyza chinensis* cont.**  
 taxonomy 38
- Liriomyza hemerocallis***  
*Hemerocallis yezoensis*, Hokkaido 10021  
 taxonomy, new species 10021
- Liriomyza huidobrensis***  
 biology 6571  
   behaviour 9754  
   environmental factors 4000  
   reviews 8621  
 celery  
   California 10809  
   damage 10809, 11816  
   Italy 11816  
 control 3506, 11557, 11816  
   chemical control 1061, 11816  
   integrated control 5473  
   reviews 8621  
 distribution  
   France 11557  
   Spain 6571  
 faba beans, Argentina 9754  
 greenhouse crops 1061  
   Israel 8621  
 horticultural crops, Europe 2212  
 lettuces, Europe 10812  
 monitoring, traps 7749  
 morphology 6571  
 potatoes  
   Costa Rica 7749  
   damage 7749  
   Peru 3506, 5473  
   sampling 10809  
   vegetables, Spain 6571
- Liriomyza princeps***  
*Artemisia*, Japan 5722  
 food plants, Japan 5722
- Liriomyza ptarmicae***  
*Artemisia*, Japan 5722  
*Chrysanthemum*, Honshu 5722  
 distribution, Japan 5722
- Liriomyza pusilla***, *Artemisia*, Japan 5722
- Liriomyza sativae***  
 biology, life history 6019  
 distribution, Dominican Republic 251  
 ecology  
   population dynamics 4516  
   spatial distribution 4520  
 lettuces, Arizona 4516  
 parasitoids 4516  
*Phaseolus lunatus* 6019  
 rearing techniques 6019  
 tomatoes, Venezuela 4520
- Liriomyza trifolii***  
 aubergines, Japan 10829  
 biological control agents, evaluation 12037  
 biology  
   behaviour 2527  
   environmental factors 4000, 10275, 10281  
   chrysanthemums 12037  
   control 2224, 8450, 11557, 11705  
   biological control 2532  
   chemical control 1061, 10563, 10829  
   ecology, population dynamics 4516, 10829  
   food plants 10275  
   Turkey 1470  
   greenhouse crops 1061  
   California 8450  
   Japan 10355  
   horticultural crops  
     Europe 2212  
     Italy 11705  
   insecticides  
     effects 11578  
     resistance 10563-10564  
   Japan 10563  
   lettuces 11392  
   Arizona 4516  
   resistance 2527  
   monitoring, traps 10355  
   neem extracts, effects 11696  
   parasitoids 298, 2138, 4516, 7577, 9576, 11424  
   *Ricinus communis*, India 1607  
   staining 11392  
   Taiwan 298, 2224  
 tomatoes  
   damage 5504
- Liriomyza trifolii* cont.**  
 tomatoes cont.  
   Sardinia 2532
- Liriomyza vitrimentula***  
*Artemisia*, Japan 5722  
 taxonomy, new species 5722
- Liriomyza yasumatsui***  
*Artemisia*, Japan 5722  
 distribution, Japan 5722
- Lispecephala* (see *Caricea*)**
- Lisronia varicostata***  
 genetics, karyotypes 7126  
 Spain 7126
- Lissochloa***, taxonomy 44
- Lissonota***  
*Abies alba*, Italy 9996  
 hosts, *Argyresthia illuminatella* 9996
- Lissorhoptrus oryzophilus***  
 biology  
   behaviour 11737  
   environmental factors 8667  
   migration 6496  
 control 11739  
   chemical control 6495, 6497  
   cultural control 6483  
 ecology, population dynamics 10740  
 Honshu 6340  
 insecticides  
   resistance 6340  
   toxicity 7541  
 rice  
   California 8667  
   Japan 6495-6497, 9728, 10740  
   Kyushu 11739  
   Louisiana 1458, 6483, 11737  
   resistance 1458, 2465
- Listronotus***  
 synonyms  
   *Anchodemus* 11124  
   *Lixellus* 11124  
   *Pseudhyperodes* 11124  
   *Relistroides* 11124
- Listronotus bonariensis***  
 control  
   biological control 2217, 6512  
   chemical control 6509  
 ecology, habitats 6502  
 grasses  
   damage 6508, 6515  
   New Zealand 6508, 6515  
   resistance 6852  
*Lolium*, New Zealand 6509  
 parasitoids 333, 1462, 6021, 7364  
 pastures, New Zealand 2217, 6502, 6507, 6512
- Listronotus oregonensis***  
 biological control agents, evaluation 10789  
 carrots  
   Nova Scotia 607  
   Quebec 10789  
 distribution, Nova Scotia 607  
 parasitoids 10257  
 pathogens 10789  
 physiology, embryonic development 9132
- Listronotus setosipennis***  
 control, *Parthenium hysterophorus* 3288  
 food plants 3288  
*Parthenium hysterophorus*  
   Queensland 3288  
   South America 3288
- Litargus balteatus***  
 cereal grains, South Carolina 4809  
 crops, commodities 9015  
 distribution, Greece 9015  
 morphology 9015
- Litchi***  
*Cryptophlebia*, Hawaii 7854  
 insects  
   pollination 659, 2585, 10872  
   South Africa 10872  
 pest control  
   Israel 2586  
   South Africa 8791  
*Statherotis discana*, Japan 5560
- Litchi chinensis***  
*Cerace stipitata*, China 9896  
*Conopomorpha sinensis*, Taiwan 10885  
*Dudua aprobola*, West Bengal 5559  
*Eudocima fullonia*, Queensland 660  
*Metatarchia fukienensis*, Fujian 22



- Litchi chinensis** *cont.*  
orchards  
Hymenoptera  
Guangxi 11905  
Taiwan 10885  
*Tessaratomia papillosa*, Guangxi 11905
- Lithacodia signifera** (see *Maliattha signifera*)
- Lithobius**  
heavy metals 1307  
prey, Enchytraeidae 1307
- Lithobius forficatus**  
Algeria 9361  
cold resistance 5063
- Lithocarpus edulis**, insect pests, Kyushu 6777
- Lithocolletinae**  
Malaysia 1824  
taxonomy 1824
- Lithocolletis ringoniella** (see *Phyllonorycter ringoniella*)
- Lithospermum erythrorhizon**, extracts, antifeedants, Lepidoptera 11700
- Lithraea ternifolia**, *Dorcacerus barbatus*, Argentina 4689
- Lithuania**  
arthropods, distribution 1153  
*Ips typographus* 3052
- Litodactylus leucogaster**, *Myriophyllum sibiricum*, Alberta 8004
- Litoprosopus futilis**  
biology, behaviour 3674  
predators 3674  
*Serenoa repens*, Florida 3674
- Litsea**, *Aleuroclava multituberculata*, Kerala 21
- Litsea glauca**  
extracts, effects, insect pests 803  
insecticidal properties 803
- Litter**  
Collembola, France 3083  
insecticides, residues 10973
- Litter (plant)**  
habitats, *Asobara rufescens* 306  
*Rhinotrombium wuxiensis*, Jiangsu 25
- Livilla spectabilis**  
distribution, Turkey 1148  
*Genista*, Turkey 1148
- Lixellus**, synonyms, of *Listronotus* 11124
- Lixophaga diatraea**, control, *Diatraea saccharalis*, sugarcane 8817
- Lixus elongatus**, Cardueae, Germany 8986
- Lixus truncatulus** (see *Hypolixus truncatulus*)
- Lizards**  
insecticides, residues 11614  
prey  
Araneae 11440  
*Eremotermes paradoxalis* 11465  
*Phthorimaea operculella* 5475
- Lobelia erinus**, *Taeniopoda eques*, Arizona 8259
- Loberus atomaroides**, *Cytisus scoparius*, New Zealand 6849
- Lobesia**, Taiwan 5092
- Lobesia aeolopa**, China 5786
- Lobesia bicinctana**, China 5786
- Lobesia botrana**  
attractants 11019  
biology 2571  
behaviour 5694, 9874-9875  
*Botrytis*, interactions 2569  
control 9870  
biological control 2569, 3546  
chemical control 2570-2571, 9875-9876  
mating disruption 2544, 4575, 9862, 9871, 9875  
trapping 11878  
*Cryptoblabes gnidiella*, differentiation 6996  
ecology 9874  
population dynamics 9875, 11877  
fruits, Europe 2544  
grapes  
damage 9876, 10866  
Egypt 11876  
Europe 10866  
France 4575, 10867  
Germany 2575, 11877  
Israel 2574, 3546
- Lobesia botrana** *cont.*  
grapes *cont.*  
Italy 2569-2571, 9875-9876  
Spain 6996, 7898, 9870-9871  
Switzerland 9862, 11878  
monitoring, traps 2569, 2574, 9874-9875, 11877  
parasitoids 7184, 11876  
pheromones 4575, 9875, 10867  
plant extracts, effects 5694  
semiochemicals, repellents, *Cydia pomonella* 4382  
vineyards, Italy 9874
- Lobesia cunninghamiacola**  
*Cunninghamia lanceolata*, China 10112  
taxonomy, from *Polychrosis* 10112
- Lobesia reliquana**, China 5786
- Loblolly pine** (see *Pinus taeda*)
- Lobopoma**, taxonomy 918
- Lobsters**, pesticides, residues 2336
- Locastra muscosalis**  
biology, life history 6701  
natural enemies 6701  
trees, Korea Republic 6701
- Lochmaea caprea**  
plant extracts, attractants 7923  
*Salix triandra* 7923
- Lochmaea suturalis**  
biochemistry, chemical composition 1914  
predators 1914
- Lochmaeocles sladeni**  
*Enterolobium contortisiliquum*, South America 7929  
predators 7929
- Locusta**  
genetics, genes 11239  
insecticides, effects 1321  
predators 274
- Locusta migratoria**  
Africa 1282  
azadirachtin, effects 9549  
biochemistry  
brain 1912  
chemical composition 10178  
cuticle 3862, 7030  
digestive system 5890  
endocrine system 5883  
fat body 6142  
hormones 11213  
degradation 3851  
juvenile hormones 5931  
metabolism 8503, 9170, 11183  
muscles 4951, 11199  
neuroendocrine system 3840  
neurotransmitters 11211  
peptides 5938  
polypeptides 5124  
proteins 2083, 8118  
reproduction 10191  
biology  
behaviour 93, 1064, 1088, 3972, 9190, 9321  
models 3985  
environmental factors 5071  
life cycle 1064  
botanical insecticides, effects 10520  
crops, Russia 11406  
genetics  
chromosomes 5959, 8186  
colour 3875  
RNA 1939  
growth regulators, effects 408  
Honshu 1064  
insecticides, effects 4249, 8503, 9560, 10178  
Japan 5071  
morphology, foregut 1859  
pathogens 1282, 8412  
physiology  
development 3173  
digestive tract 9185  
endocrine system 115, 1908, 11210  
excretory system 2932, 4950, 5902  
flight 93, 9321  
hormones 3875, 4350, 4964  
metabolism 84  
muscles 980, 10180  
nervous system 112, 121, 281, 1321, 5907, 8149, 8152, 9190, 11204  
reproduction 1901  
sense organs 986, 5921, 9195, 10185
- Locusta migratoria** *cont.*  
physiology *cont.*  
water relations 3870
- Locusta migratoria capito** (see *L. m. migratorioides*)
- Locusta migratoria cinerascens**  
Algeria 275  
predators 275
- Locusta migratoria manilensis**  
biology, behaviour 3177  
Hebei 3177  
pathogens 11528, 11531  
physiology, reproduction 9200
- Locusta migratoria migratorioides**  
biochemistry  
chemical composition 9217  
neurosecretory system 4267  
control, chemical control 5709, 7324  
growth regulators, effects 3410  
insecticides, toxicity 2289, 4266  
Madagascar 7324  
pathogens 7470  
physiology  
excretory system 5903  
hormones 5941  
plant extracts, effects 1726  
savannas, Madagascar 5709
- Locusts**  
biochemistry, peptides 5947  
control, chemical control 7315  
grasslands, China 7315  
insecticides, toxicity 6315
- Lodgepole pine** (see *Pinus contorta*)
- Lolium**  
*Costelytra zealandica*, New Zealand 6514  
insect pests, Georgia 9670  
*Rhopalosiphum padi*, France 7640  
*Sitobion avenae*, France 7641
- Lolium multiflorum**  
*Abacarus hystrix*, Australia 583  
Aphididae, Chile 9741  
fields  
Araneae, Belgium 3223  
Carabidae  
Belgium 203  
Honshu 5447  
*Listronotus bonariensis*, New Zealand 6509  
*Oscinella frit* 1467  
*Poanes melane* 5402
- Lolium perenne**  
*Abacarus hystrix*, Australia 583  
habitats, predatory arthropods, UK 9380  
*Heteronychus arator* 6513  
insect pests 2725  
damage 6515  
New Zealand 6515  
*Listronotus bonariensis*  
damage 6508  
New Zealand 6502, 6508-6509  
*Oscinella frit* 1467  
*Parapediasia teterrella*  
Japan 4456  
resistance 4456  
*Sitona hispidulus*, nitrogen transfer 4392  
*Spodoptera frugiperda* 5455  
*Tipula paludosa* 7722  
UK 6505
- Lolium rigidum**  
*Abacarus hystrix*, Australia 583  
pesticides, mixtures, effects 3386
- Lomatium**, *Papilio zelicaon*, USA 11316
- Lomechusa marginatus**, Denmark 4081
- Lonchocarpus castilloi**, extracts, antifeedants, *Cryptotermes brevis* 9978
- Lonchodes harmani**  
food plants, Brunei Darussalam 2847  
taxonomy, new species 2847
- Lonchopteridae**  
biology, feeding 11715  
cereals, fields, Denmark 11715
- Longitarsus jacobaeae**  
biology, behaviour 1756  
control, *Senecio jacobaeae* 3691  
ecology, interspecific competition, models 11014  
pheromones 1756  
*Senecio jacobaeae*  
Netherlands 5723  
Oregon 1756, 3691



- Longitarsus jacobaeae** *cont.*  
*Senecio jacobaea* *cont.*  
 UK 11014
- Longitarsus melanurus**  
 biology, reproduction 9302  
*Echium vulgare*, USA 9302
- Longitarsus nigripennis**  
 biology, behaviour 12046  
*Piper nigrum* 12046
- Longleaf pine** (see *Pinus palustris*)
- Lonicera japonica**, Noctuidae, USA 4773
- Lonicera quinquelocularis**, *Prociphilus himalayensis*, India 1693
- Lophoceramia pyrrha**, *Wigandia urens*, Mexico 4769
- Lophomyrmex**, taxonomy 48
- Lophostemon**, *Wingia* group, Australia 6981
- Lopidea heidemannii**, *Phlox*, USA 12054
- Loquats** (*Eriobotrya japonica*)  
*Anastrepha suspensa* 5547  
 conferences 2810  
 pest control 2810
- Loranthaceae**  
*Tuberaphis takenouchii*  
 galls 4832  
 South East Asia 4832
- Loricera pilicornis**, peatlands, UK 8289
- Lorsban** (see *Chlorpyrifos*)
- Lotus**  
 insect pests  
 China 12035  
 control, integrated control 12035
- Lotus major** (see *Lotus uliginosus*)
- Lotus pedunculatus** (see *Lotus uliginosus*)
- Lotus uliginosus**, *Merophyas divulsana*, New Zealand 4464
- Loulucoris**, taxonomy, new genus 11103
- Loulucoris cinygiscus**  
*Pritchardia*, Hawaii 11103  
 taxonomy, new species 11103
- Loulucoris kidoi**  
*Pritchardia*, Hawaii 11103  
 taxonomy, new species 11103
- Low input agriculture**  
 effects  
 insect pests 10684  
 invertebrates 9843
- Loxa**  
 pathogens 9475  
 plant pathogens, transmission 9475
- Loxa flavicollis**  
*Solanum*, Argentina 603  
 taxonomy 603
- Loxagrotis albicosta** (see *Richia albicosta*)
- Loboblemmus doenitzi**  
 biology, environmental factors 10274  
 Shandong 10274
- Lucanidae**, taxonomy 2844-2845
- Lucerne** (*Medicago sativa*)  
 Acrididae, Utah 8681  
*Acyrtosiphon*, Maryland 2479  
*Acyrtosiphon kondoi*, Oklahoma 3485  
*Acyrtosiphon pisum* 2900, 4467  
 British Columbia 585  
 damage 8683  
 resistance 7724  
 Sweden 586
- Aphididae, Argentina 3483
- beneficial insects  
 pollination 1198  
 Sudan 1198
- Coleophora vicinella*, Spain 584
- Colias* 3030
- Creontiades*, Australia 11362
- Curculionidae, New Zealand 6525
- Dasyhelea punctiventris*, Spain 9738
- effects, *Orius sauteri* 644
- Empoasca fabae* 3984  
 damage 10750  
 Kansas 9745  
 Missouri 11500
- Epicauta*  
 Kansas 6520  
 resistance 6520
- Epicauta occidentalis*, Kansas 4459, 10749
- fields  
*Aphidius ervi*, British Columbia 585
- beneficial insects  
 Czech Republic 6522  
 West Virginia 8682
- Lucerne** *cont.*  
 fields *cont.*  
 Coccinellidae  
 Iowa 3484  
 Yugoslavia 6166
- Hemiptera, California 4661
- Microctonus aethiopoides*, New Zealand 6525
- Microctonus zealandicus*, New Zealand 906
- parasitoids, Minnesota 4460
- predatory arthropods  
 Libya 3486  
 Sweden 586
- predatory insects, Manitoba 8679
- Gonioctena fornicata* 2480
- habitats  
*Coccinella septempunctata*, Michigan 5392  
*Stylogocoris maculatus*, Queensland 3752
- Hypera postica*  
 Alberta 8680  
 damage 2481  
 Illinois 6519  
 Minnesota 4460  
 Nebraska 2481  
 resistance 7723  
 Saudi Arabia 9747  
 Turkey 7723  
 West Virginia 8682
- insect pests  
 damage 4458  
 Hungary 4458  
 Iowa 3484  
 Manitoba 8679
- intercropping, apples, effects, predatory arthropods 8754
- Irenimus aequalis*, New Zealand 906
- Lygus hesperus*  
 California 4661  
 yield losses, models 4059
- mycotoxins, effects 5459
- Nicaeana*, New Zealand 6521
- Otiorynchus ligustici* 4176  
 New York 9746
- pest control 391  
 South Dakota 5781
- pest resistance 6523
- pesticides, residues 578
- Polymmatius icarus* 4970
- Sitona hispidulus* 10337  
 resistance 11777
- slugs, damage 3482
- Spodoptera exigua*, California 6407
- Spodoptera litoralis*, Libya 5458
- Spodoptera litura*, Japan 391
- Systena argentinensis*, Argentina 182
- Therioaphis trifolii* form *maculata*, resistance 10751
- Thysanoptera, North Carolina 9279
- Luciaphorus**, *Heterotermes tenuis*, interactions 2144
- Lucinia**, predators 5129
- Luehdorfia japonica**  
*Heterotropa* 4356  
 plant extracts, effects 4356
- Lufenuron**  
 control  
*Aonidia lauri*, *Laurus nobilis* 10005  
 Tortricidae, fruits 6628
- legislation, nomenclature 428
- usage 1314
- Luffa acutangula**, *Bactrocera cucurbitae*, Rajasthan 6618
- Luffa aegyptiaca**, *Aulacophora foveicollis* 638
- Lumbricidae**, parasitoids 4294
- Lumbricus terrestris**  
 insecticides, effects 7598  
 predators 6181
- Lungs**, insecticides, toxicity 478
- Luperina nickerlii**, distribution, Germany 10305
- Lupins**  
 Acari  
 damage 11704  
 varietal reactions 11704
- arthropod pests, Victoria 11757
- Myzus persicae*, Western Australia 3140
- Lupinus albus**  
 extracts  
 effects, *Bruchus pisorum* 4466  
 toxicity, *Amblyseius barkeri* 7984
- Lupinus arboreus**  
*Agonopterix ulicetella* 11013  
 habitats, Formicidae, California 4772
- Orgyia vetusta*, California 4772, 6192, 12004, 12052
- Lupinus polyphyllus**, *Agonopterix ulicetella* 11013
- Lutra lutra**  
 organochlorine compounds, residues 1342  
 pesticides, residues 5324, 8546
- Luvunga scandens**  
 oils  
 effects, *Callosobruchus chinensis* 3675  
 repellents, *Callosobruchus chinensis* 1732
- Lycaena tityrus**, distribution, Portugal 9360
- Lycaenidae**  
 biology 11159  
 Colombia 5090  
 ecology 240  
 morphology, eggs 11159  
 Spain 240
- Lycidas minutus**  
 ecology, population dynamics 8820  
 tea, plantations, Hunan 8820
- Lycium chinense**  
*Aceria macrodonis*  
 damage 7982  
 Korea Republic 7982
- Lycopersicon**, *Trialeurodes vaporariorum*, resistance 4524
- Lycopersicon esculentum** (see *Tomatoes*)
- Lycopersicon hirsutum**  
*Neoleucinodes elegantalis*, resistance 7791  
*Spodoptera exigua*, resistance 7790
- Lycopersicon hirsutum f. glabratum**,  
*Scrobipalpula absoluta*, resistance 7787
- Lycopersicon pennellii**  
*Bemisia argentifolii*, resistance 10481  
*Trialeurodes vaporariorum*, resistance 4524
- Lycopersicon pimpinellifolium** (see *Tomatoes*)
- Lycoriella auripila**  
 control, biological control 6838  
 mushrooms, Germany 6838
- Lycoriella mali**  
 control 813  
 biological control 6838  
 mushrooms  
 Germany 6838  
 Pennsylvania 813
- parasitoids 3683
- pathogens 813, 2203
- Lycoriella pleuroti**  
 biology, life history 12041  
 control, chemical control 12041  
 fungi, China 12041
- Lycoriella solani** (see *L. mali*)
- Lycosa**, prey, *Litoprosopus futilis* 3674
- Lycosa helluo** (see *Alopecosa helluo*)
- Lycosa pseudoannulata**  
 prey, *Nilaparvata lugens* 6482  
 rice, fields, Indonesia 6482
- Lycosa rabida**, genetics, chromosomes 11434
- Lycosidae**  
 biochemistry, heavy metals 5162  
 ecology  
 habitats 10368  
 population dynamics 5167, 11929
- fields, habitats, Mississippi 5167
- Finland 10368
- grasslands, South Dakota 9742
- interactions, arthropods 9742
- monitoring, traps 5167, 11929
- Ohio 5162
- olives, orchards, Italy 11929
- sewage sludge, effects 5162
- Lyctidae**, wood, USA 11041
- Lyctocoris campestris**  
 biology, behaviour 6068, 6168  
 ecology, population dynamics 9011
- maize, commodities, habitats, Wisconsin 9011



- Lyctocoris campestris* cont.  
monitoring, traps 9011  
prey, stored products pests 320, 6168  
rearing techniques 6168  
USA 6168
- Lyctus brunneus*, taxonomy 30
- Lyctus planicollis*, wood, USA 11041
- Lydella*  
taxonomy  
synonyms of  
  *Diatraeophaga* 4827  
  *Metagonistylum* 4827  
  *Metoposisyrops* 4827
- Lydella grisescens*  
biology, environmental factors 310  
hosts, *Ostrinia furnacalis* 310  
Jiangsu 310
- Lydella jalisco*  
hosts, *Eoreuma loftini* 4827  
Mexico 4827  
taxonomy, new species 4827
- Lydella thompsoni*  
hosts, *Ostrinia nubilalis* 6464  
maize, fields, Yugoslavia 6464
- Lygaeidae**  
Palaeartic Region 8064  
taxonomy 8064  
  new taxa 11128  
  West Africa 11128
- Lygaeus kalmii*  
biology 825  
weeds, California 825
- Lygaeus equestris*  
insecticides, toxicity 8492  
Japan 8492
- Lygaeus kalmii*  
biology, behaviour 5448  
rangelands, Wyoming 5448
- Lygocoris lucorum*  
chrysanthemums  
  damage 7975, 10013  
  Honshu 7975
- Lygropia clytusalis*, *Brachychiton*, Queen-  
sland 1681
- Lygus**  
  *Anethum graveolens*, Poland 8963  
  control  
    chemical control 8963  
    physical control 9744  
  ecology, population dynamics 6536  
  irrigation, effects 8679  
  lucerne, Manitoba 8679  
  *Populus trichocarpa*, Washington 7919  
  predators 9744  
  soybeans, Yugoslavia 6536
- Lygus hesperus*  
biochemistry, enzymes 6334  
biological control agents, evaluation 5537  
control 8773  
  cultural control 4661  
  trapping 8772  
  cotton, fields, Arizona 706, 712  
  crops, California 4661  
  insecticides, resistance 6334  
  lucerne, yield losses, models 4059  
  parasitoids 4059, 5537  
  prey, insect pests 712  
  strawberries 5537  
    California 8772-8773
- Lygus lineolaris*  
biology  
  behaviour 7832  
  fecundity 9136  
  oviposition 2638  
control 4662, 7835  
  chemical control 5538  
cotton  
  Arkansas 709  
  Mississippi 4662  
  resistance 709  
food plants 2638  
  Quebec 4110  
forest trees, Quebec 730  
insecticides, toxicity 3338  
Manitoba 9136  
parasitoids 4110  
pheromones 7517  
physiology, sense organs 7517  
strawberries  
  damage 7832  
  Maine 5538, 7835
- Lygus lucorum*  
biology, life history 7881  
control, chemical control 7881  
tea  
  Jiangsu 7881  
  resistance 7881
- Lygus pratensis*  
cotton, Xinjiang 7890  
ecology, distribution 7890  
sampling 7890
- Lygus rugulipennis*  
biology 11865  
  environmental factors 4458  
control 11865  
lucerne  
  damage 4458  
  Hungary 4458  
peaches  
  damage 11865  
  Italy 11865  
  *Pinus sylvestris*, damage 1687  
  soybeans, Yugoslavia 6536
- Lygus spinolae*  
biology, life cycle 9935  
control, integrated control 9935  
morphology 9935  
tea, China 9935
- Lymantria dispar*  
apples, New York 4553  
*Beula* 8866  
biochemistry 7093  
  enzymes 2910, 6576, 8130  
  proteins 991, 2922, 5942  
  reproductive organs 3845  
biological control agents, evaluation  
  2173, 4673, 9528  
biology 723, 4679  
  behaviour 1100  
  development 732, 3627, 8217  
  models 5845  
  dispersal 2656  
  environmental factors 11974  
  models 9382  
  nutrition 733  
  phenology 6746  
  reproduction 11165  
birds, interactions 5642  
broadleaves 8865  
  Connecticut 4688  
  Massachusetts 4687  
  Michigan 732-733  
  resistance 736  
  USA 1656  
cell lines, pathogens 2163, 5220, 8442,  
  10408  
chestnuts, China 7861  
control 4679, 4684, 6744, 9970  
  biological control 365, 2666, 4210,  
    5625, 5645, 9382  
  chemical control 2652, 7594, 7861  
  cultural control 4697  
  physical control 4553  
  trapping 2666  
diets 8445  
distribution  
  British Columbia 8302  
  New Zealand 8302  
  Oregon 8302  
  Washington 8302  
ecology  
  population dynamics 2666  
  models 1135, 1174, 2018, 9970,  
    10252  
Europe 11284  
forecasting 9970  
forest trees 723, 3627, 6747  
  damage 1641, 5642, 11974  
  Florida 404  
  Germany 4679, 5625  
  Michigan 6744, 6746  
  outbreaks 11974  
  Pennsylvania 11974  
  USA 2652-2653, 9970  
  West Virginia 5642  
forests  
  USA 4210  
  West Virginia 7594  
genetics  
  DNA 8217, 8236  
  genes 165  
  genetic variation 11284
- Lymantria dispar* cont.  
genetics cont.  
  RNA 8205  
Germany 7909  
heavy metals, effects 11563  
insecticides  
  pathogenicity 8865, 9974  
  toxicity 9571
- Malus*  
Michigan 2552  
varietal reactions 2552
- Maryland 9419  
  Massachusetts 10491  
  monitoring, traps 365, 404, 1656, 2653,  
    10489  
  morphology 1177  
  natural enemies 10942  
  North America 2018, 2656  
  outbreaks 403  
  parasitoids 1080, 4687, 7093, 7309, 9424  
  parks, Maryland 4684  
  pathogens 1253, 1671, 1679, 2183, 4142,  
    4181, 4210, 4673, 4698, 5625,  
    8444-8445, 11524  
  phagostimulants, effects 6259  
  pheromones 404, 991, 1100, 9658  
  physiology  
    development 9139  
    digestive tract 6747  
    haemolymph 11524  
    nutrition 7024  
    pheromones 3830  
    reproduction 131  
  plant extracts, effects 736, 6576  
  populations, differentiation 1177  
  *Populus* 9974  
    resistance 4701  
  *Populus tremuloides* 11990  
  predators 2125, 4688, 9419  
    marking, biological tags 9392
- Quercus* 1668  
  damage 6755  
  Maryland 2666  
  Ontario 365  
  Pennsylvania 6755  
  Sardinia 5645  
  USA 4697-4698
- Quercus rubra*  
  damage 1671  
  Massachusetts 10942  
  rearing techniques 8339  
  *Robinia*, Yugoslavia 1679  
  Russia 10489  
  sampling 4224-4225, 10491  
  USA 2183  
  Virginia 4224-4225
- Lymantria mathura*  
chestnuts, China 7861  
control, chemical control 7861  
genetics, DNA 8236  
monitoring, traps 10489  
Russia 10489
- Lymantria monacha*  
biology, behaviour 9294  
control, biological control 5625  
forest trees, Germany 5625  
genetics, DNA 8236  
Germany 9294  
monitoring, traps 10489  
pathogens 5625  
Russia 10489
- Lymantria obfuscata*  
biology, environmental factors 3070  
parasitoids 3070
- Lymantriidae**  
*Calliandra calothyrsus*, Philippines 2681  
*Fagus*, Slovakia 3642  
physiology, glands 10170
- Lymnaea acuminata*, insecticides, effects  
  4302
- Lymnaea auricularia*, pathogens 8404
- Lymnaea luteola*, molluscicides, effects 801
- Lymnaea peregra*  
ecology 4132  
genetics, inheritance 1923  
UK 4132
- Lymnaea stagnalis*  
biology, behaviour 6218  
genetics  
  genes 136  
  nucleotide sequences 1240



- Lymnaea stagnalis* cont.**  
 physiology  
 endocrine system 135  
 nervous system 355, 2150, 2152, 6218  
 sense organs 120  
 retinoic acid, effects 954
- Lymnaeidae**  
 Honshu 348  
 predators 348
- Lyonetia clerkella***  
 biology, behaviour 8255  
 Hebei 8255
- Lyonia elliptica***  
*Stephanitis takeyai* 7637  
 Honshu 10000
- Lysandra coridon*** (see *Polyommatus coridon*)
- Lysergol**, effects, *Heliothis virescens* 10017
- Lysine**, effects, *Bactrocera cucurbitae* 7029
- Lysiphlebus cardui***  
 biology  
 behaviour 327  
 models 2104  
 hosts  
 Aphididae 2104  
*Aphis fabae cirsiacanthoidis* 327
- Lysiphlebus delhiensis***  
 biology  
 behaviour 3204  
 reproduction 9693  
 hosts  
*Melanaphis sacchari* 9693  
*Rhopalosiphum maidis* 3204
- Lysiphlebus testaceipes***  
 biology  
 behaviour 7343, 8260  
 environmental factors 7233  
 control, *Aphis gossypii*, evaluation 9826  
 genetics, mitochondrial DNA 5975  
 hosts  
 Aphididae 11898  
*Aphis fabae* 7343  
*Aphis gossypii* 7233  
*Rhopalosiphum padi* 8260
- Lysirina***, taxonomy, new genus 1815
- Lysirina polychroma***, taxonomy, new species 1815
- Lythrum**  
 Cecidomyiidae  
 Europe 1826  
 galls 1826
- Lythrum salicaria***, *Myzus lythri*, Idaho 11015
- Lytta nuttalli***  
 biology, behaviour 11301  
 Colorado 11301  
 insecticides, pathogenicity 5218
- Macadamia**  
*Cryptophlebia*, Hawaii 7854  
*Ecdytophla aurantianum*, Costa Rica 679  
*Nezara viridula*, South Africa 11918
- Macadamia integrifolia***, *Cryptophlebia*, Hawaii 11919
- Macaranga hosei***  
 arthropods, Malaysia 814  
 Formicidae, interactions 814  
 habitats, Formicidae, Malaysia 814
- Macaranga tanarius***, Formicidae, interactions 814
- Macevethini**, phylogeny 11142
- Macdunnoghia confusa***  
 Beijing 5272  
 monitoring, traps 5272
- Macdunnoghia confusa***  
 maize, Italy 5419  
 monitoring, traps 5419
- Machilus japonica***  
 extracts, effects, insect pests 803  
 insecticidal properties 803
- Machinus occidentalis***  
 biology 3228  
 fields, habitats, Montana 3228  
 morphology 3228
- Maconellicoccus hirsutus***  
 biology 5386  
 control 5386  
 chemical control 2567  
 crops, Middle East 5386  
*Morus*, Indonesia 2567
- Maconellicoccus hirsutus* cont.**  
 pigeon peas, Gujarat 2496
- Macrargus rufus***  
 biology, behaviour 5626  
 forests, habitats, Finland 5626
- Macraspis morio***  
 genetics, karyotypes 5983  
 São Paulo 5983
- Macrocentrinae**, taxonomy 2859
- Macrocentrus***, hosts, *Prophantis smaragdina* 3604
- Macrocentrus ancyliclava***  
 hosts, *Anarsia lineatella* 3539  
 stone fruits, orchards, California 3539
- Macrocentrus grandii***  
 hosts, *Ostrinia nubilalis* 4423, 9482  
 insecticides, pathogenicity 9482  
 maize, fields, USA 7063  
 pheromones 7063
- Macrocentrus linearis***  
 biology, environmental factors 310  
 hosts, *Ostrinia furnacalis* 310  
 Jiangsu 310
- Macrocentrus nigrigenuis***  
 hosts, Tortricidae 2859  
 taxonomy, new species 2859
- Macrocentrus watanabei***  
 hosts, *Dioryctria sylvestrella* 2859  
 taxonomy, new species 2859
- Macrocheles subbadius***, hosts, *Drosophila nigrospiracula* 6157
- Macrocheles zaheri***  
 composts, Egypt 9092  
 taxonomy, new species 9092
- Macrochelidae**  
 Australia 10251  
 biology  
 behaviour 10251  
 embryonic development 1866
- Macrochirus praetor***  
 control, chemical control 2737
- Daemonorops hystrix***  
 damage 2736  
 Indonesia 2736-2737
- Macroductylus murinus***  
 attractants 11730  
 maize, Mexico 3440, 11730  
 monitoring, traps 11730  
 parasitoids 3440
- Macroductylus nigripes***  
 attractants 11730  
 maize, Mexico 11730  
 monitoring, traps 11730
- Macroductylus subspinosus***  
*Malus*  
 Michigan 2552  
 varietal reactions 2552
- Macrodiplosis, Quercus* 5653**
- Macrodiplosis dryobia***  
*Quercus*  
 galls 3635  
 Irish Republic 3635
- Macrodiplosis volvens***  
*Quercus*  
 galls 3635  
 Irish Republic 3635
- Macroglossum stellatarum***, biology, behaviour 8273
- Macrohomotoma**  
*Ficus benjamina*, Philippines 7000  
 morphology 7000
- Macrolophus caliginosus***  
 biochemistry, chemical composition 8113  
 biology 11447  
 development 8113  
 control  
*Bemisia tabaci*, greenhouse crops 4759  
 insect pests 8113  
*Trialeurodes vaporariorum*, tomatoes 1518  
 greenhouses  
 France 8378  
 habitats, Mediterranean Region 11447  
 morphology 11447  
 pesticides, effects 8378  
 prey  
 Aleyrodidae 11447  
*Trialeurodes vaporariorum* 8378  
 tomatoes  
 fields, Spain 7788
- Macrolophus caliginosus* cont.**  
 tomatoes cont.  
 greenhouses, France 1518
- Macrolophus pygmaeus***, tomatoes, fields, Spain 7788
- Macrophya punctumalbum***, distribution, Nova Scotia 5681
- Macropsis emeljanovi***  
*Hippophae rhamnoides*  
 Asia 5793  
 France 5793  
 morphology 5793
- Macropsis grossa***  
*Hippophae rhamnoides*  
 Asia 5793  
 France 5793  
 morphology 5793
- Macropsis mulsanti***  
*Hippophae rhamnoides*  
 Asia 5793  
 France 5793  
 morphology 5793
- Macropsis pseudomulsanti***  
*Hippophae rhamnoides*  
 Asia 5793  
 France 5793  
 morphology 5793  
 taxonomy, new species 5793
- Macrotitulum lathyroides***, *Japanagromyza macrotitilivora*, Brazil 2858
- Macrorhaphis**  
 prey, *Nematus oligospilus* 10948  
*Salix*, habitats, Southern Africa 10948
- Macrosiphonella***, morphology 4888
- Macrosiphonella millefolii***, morphology 4888
- Macrosiphoniella millefolii***  
*Achillea ptarmica*  
 galls 8006  
 UK 8006
- Macrosiphum albifrons***, plant extracts, effects 11564
- Macrosiphum avenae*** (see *Sitobion avenae*)
- Macrosiphum creelii***, parasitoids 184, 7351
- Macrosiphum euphorbiae***  
 biochemistry, enzymes 3815  
 celery, Italy 3521  
 control  
 biological control 11817  
 chemical control 6604, 9965, 10824  
 integrated control 11870  
 physical control 10836  
 ecology  
 phenology 7758  
 population dynamics 4495, 7759  
 flax, Manitoba 9965  
 lettuces, Germany 11817  
 marrows, Italy 10836  
 Michigan 8372  
 monitoring, traps 4495  
 parasitoids 4525, 6182, 7759  
 plant extracts, effects 11564  
 plant pathogens, transmission 631, 3521, 10787, 10824, 10836  
 potatoes 6182  
 Hokkaido 7754, 7758-7759  
 Morocco 10787  
 Parana 4495  
 Russia 6560  
 predators 7754, 7759, 8372  
 sampling 4525  
 strawberries, Italy 11870  
 tomatoes  
 Italy 10824  
 New Zealand 6604  
 North Carolina 4525  
 Pakistan 631  
 Turkey 1519  
 varietal susceptibility 1519
- Macrosiphum granarium*** (see *Sitobion avenae*)
- Macrosiphum rosae***  
 control, biological control 8940  
 ectoparasites 9352  
 roses, California 8940
- Macrosteles quadrilineatus***, plant pathogens, transmission 4208
- Macrosteles strifrons***  
 Asia 11120  
 taxonomy 11120



**Macrotermes**

- biochemistry, enzymes 5187
- predators 282
- Termitomyces*, symbionts 5187

**Macrotermes bellicosus**

- biology, water relations 2942
- interactions, *Macrotermes subhyalinus* 8397

**Macrotermes malaccensis**

- control, chemical control 2659
- Eucalyptus urophylla*, Kalimantan 2659

**Macrotermes michaelsoni**

- biology, behaviour 10386
- Kenya 4127
- taxonomy 4127

**Macrotermes muelleri**

- biochemistry, enzymes 91
- Termitomyces*, symbiosis 91

**Macrotermes subhyalinus**

- biology
  - behaviour 8397
  - water relations 2942
- interactions, *Macrotermes bellicosus* 8397
- Kenya 4127
- taxonomy 4127

**Macrotermes palmata**

- ecology, population dynamics 8617
- food plants, Egypt 8617

**Macrotermes**, insects, Australia 5622**Maculinea nausithous**

- ecology, habitats 11345
- France 11345

**Maculinea rebeli**

- ecology, Polyommatus 254
- Switzerland 254

**Maculinea teleius**

- ecology, habitats 11345
- France 11345

**Macusia satyroides**, Colombia 5096**Madagascar**

- Adetomyrma venatrix* 1818
- Araneae 3100
- Cerceris*, prey 42
- cotton, Miridae 10068
- insect pests 5294
- Lepidoptera 3024
- Locusta migratoria migratorioides* 7324
- maize, *Nomadacris septemfasciata* 10712
- rice
  - habitats, natural enemies 1212
  - Maliarpha separata* 1212, 8665
  - natural enemies 1212
- savannas, *Locusta migratoria migratorioides* 5709
- Spodophagus* 5171

**Madeira**, *Steganacarus* 4857**Madurasia obscura**

- control, chemical control 6890
- Vigna mungo*, Tamil Nadu 6890
- Vigna radiata*, Uttar Pradesh 10780

**Magiciada**, ecology 9265**Magiciada cassini**, biology, behaviour 1098**Magiciada septemdecim**

- biochemistry, chemical composition 339
- insects as food 339
- Michigan 339

**Magister**

- control, *Calepitrimerus vitis*, grapes 7837
- effects, *Typhlodromus pyri* 7837

**Magnaporthe grisea**, *Cnaphalocrocis*

- medinalis, interactions 2464

**Magnaporthe salvinii**, *Rupela albinella*,

- interactions 3458

**Magnolia biloba**

- habitats, parasitoids, Zhejiang 5689
- Strigilina bifida*, Zhejiang 5689

**Magnolia fargesii**, extracts, growth regula-

- tors, *Drosophila melanogaster* 5370

**Magnolia schiedeana**, *Cyclocephala jalapensis*, Mexico 4714**Mahasena corbetti**

- oil palms, Malaysia 6708
- pathogens 6708

**Mahasena graminivora**, sugarcane, Uttar

- Pradesh 10905

**Mahonia aquifolium**, odours, effects, *Atta*

- sexdens* 409

**Maiacea**, *Schlechtendalia chinensis*, China

- 10396

**Maize** (*Zea mays*)**Maize cont.**

- Acronicta rumicis*, Jiangsu 7635
- Agrotis*, France 1415, 1442
- Agrotis ipsilon* 4056
  - damage 550
  - Mexico 550
- Agrotis segetum*, Spain 6457
- arthropod pests, Venezuela 7675
- Stylus variegatus*, Minas Gerais 5421
- Bacillus thuringiensis*, genetic engineer-  
ing 10683
- Brevipalpus phoenicis*, resistance 4391
- Busseola fusca*, Africa 6423
- Cathartus quadricollis* 836
- Chilo partellus*
  - Comoros 8646
  - damage 7679
  - Kenya 1434, 4397, 4413, 5416-5417,  
5425, 7679, 9708
  - resistance 1434, 4413, 4427, 7680,  
9708
- Chinomus haywardi* 3425
- Cicadellidae 7684
  - Mexico 4036
- Cicadulina chinai* 10720
- commodities
  - Acari, Italy 6879
  - Coleoptera 2784, 4795, 4801, 9558
  - damage 10032, 10056
  - Zimbabwe 841
- Corcyra cephalonica* 5737
- damage, models 1773
- habitats, *Lyctocoris campestris*, Wis-  
consin 9011
- insect pests 10039
  - Colombia 11050
  - Costa Rica 3704
  - Georgia 6874
  - resistance 8015
- insecticides, residues 4796, 6882,  
10039
- pest control
  - Cameroon 1773
  - Cote d'Ivoire 2788
- Plodia interpunctella*, USA 9613
- Prostephanus truncatus* 842, 1770,  
3699
- Rhyzopertha dominica* 9009
- Sitophilus*, damage 5749
- Sitophilus zeamais* 3676, 6186, 6876,  
6883, 6885, 7932
  - resistance 6900
  - varietal susceptibility 5745
- Sitotroga cerealella* 2783
  - resistance 9017
- stored products pests
  - damage 4800
  - Mexico 4800
- Cosmopolites sordidus*, Cameroon 6676
- Dactylispa setifera* 7106
- Dalbulus*, Mexico 10746
- Dalbulus maidis* 1439, 8641
- Argentina 3439
- Deroceras reticulatum*
  - economic thresholds 6454
  - Pennsylvania 6454
- Diabrotica* 1438, 1440, 11319
  - Illinois 4425
  - Ohio 2433
  - resistance 6469
- Diabrotica barberi*, South Dakota 2423,  
6456
- Diabrotica undecimpunctata*
  - damage 8651
  - Georgia 8651
- Diabrotica virgifera*
  - Colorado 9705
  - damage 4417, 6466
  - Missouri 2422
  - New York 4421
  - Ontario 4417
  - Pennsylvania 10713
  - resistance 2422
  - South Dakota 4419, 9701
  - Texas 6467, 8648
  - Yugoslavia 6465-6466
- Diabrotica virgifera virgifera*, economic  
thresholds 4421
- Diatraea grandiosella*
  - Mexico 3444, 7683
  - resistance 3444, 4422, 7683

**Maize cont.**

- Dichelops melacanthus*, Mato Grosso do  
Sul 8644
- Egypt 3441
- extracts
  - attractants
    - Apanteles kariyai* 9696
    - Helicoverpa armigera* 3411
    - Sitophilus zeamais* 10054
  - effects
    - Diabrotica virgifera* 7681, 9705
    - Spodoptera exempta* 556
- fields
  - Araneae, Belgium 3223, 5418
  - beneficial insects, Kenya 6427
  - Carabidae, Belgium 203
  - habitats, *Orius insidiosus*, Maryland  
5424
  - Hymenoptera, Chile 10706
  - Macrocentrus grandii*, USA 7063
  - Megaselia scalaris*, Mexico 3440
  - parasitoids
    - Kenya 5425
    - Yugoslavia 6464
  - predatory arthropods
    - Maryland 9755
    - Virginia 3437
  - predatory insects
    - Egypt 5414
    - Kenya 6050
  - Syrphidae, UK 7676
  - Telenomus busseolae*, Benin 10714
  - Trichogramma*, Taiwan 2421
  - Trichogramma nubilale*, Pennsylvania  
11731
  - Trichogramma ostrinae*, Jiangsu  
7682
  - Trichogramma pretiosum*, Sao Paulo  
4416
- flours, *Tribolium castaneum* 8022
- Glischrochilus quadrisignatus*, Italy  
11733
- Graminella nigrifrons* 11728
  - Virginia 10721
- habitats
  - Bracon hebetor*, USA 9613
  - Coccinella septempunctata*, Michigan  
5392
  - Hymenoptera, Mexico 4036
  - insects, Delhi 4101
- Helicoverpa armigera*
  - China 10711
  - Cote d'Ivoire 10682
  - India 1521
  - Kenya 6050, 6427
  - Victoria 6455
- Helicoverpa zea* 5420, 9483
  - Chile 10706
  - Georgia 4426
  - resistance 558, 2432, 2434, 4418,  
4426, 9483, 9706, 10715
  - Sao Paulo 5420
  - South Carolina 6458
  - Texas 8650, 9702
  - USA 9706
- herbicide resistance, insecticides, effects  
9714
- Homoptera 9698
- insect pests 2420, 8618
  - control
    - chemical control 1435, 6470
    - cultural control, reviews 9532
  - Germany 4414
  - Italy 5419
  - Maryland 9755
  - Meghalaya 5263
  - Pakistan 553, 1437
  - Pernambuco 8643
  - resistance 9709
  - Tanzania 1435
  - varietal susceptibility 553
- insecticides
  - effects 10632, 10722
  - residues 3398
- intercropping
  - effects, insect pests 5263
  - integrated pest management 1418
  - Phaseolus vulgaris*, effects, *Epilachna*  
*varivestis* 4476
- Lepidoptera
  - California 9703



**Maize cont.**  
*Lepidoptera cont.*  
 Kenya 1418  
 resistance 1418, 5415, 9711, 9713, 11729  
*Leptoglossus zonatus* 7646  
 Parana 557  
*Leucopholis lepidophora*, Maharashtra 3015  
*Macroductylus*, Mexico 11730  
*Macroductylus murinus*, Mexico 3440  
*Megalurothrips sjostedti*, Kenya 6417  
*Melanaphis sacchari* 9693  
*Metopolophium dirhodum*, Czech Republic 555  
*Mussidia nigrivenella*  
 damage 8619  
 Togo 8619  
*Mythimna separata* 8626, 9696  
*Mythimna unipuncta*  
 damage 4420  
 Ohio 4420  
 Virginia 3437  
 Noctuidae  
 Georgia 2425  
 North America 2436  
 resistance 2425, 2431, 8642, 10719  
 Sao Paulo 4416  
*Nomadacris septemfasciata*, Madagascar 10712  
*Oscinella frit*  
 damage 8649  
 Poland 551, 3438, 8649  
 resistance 3438  
 yield losses 551  
*Ostrinia furnacalis* 552  
 Taiwan 2421, 10718  
*Ostrinia nubilalis* 4423, 9695, 10716, 11303  
 damage 2429  
 Germany 10705  
 Hungary 6459  
 Illinois 4424  
 Iowa 2435  
 Israel 10710  
 Italy 9694  
 Jiangsu 7682  
 Maryland 5424, 11732  
 Minnesota 10708-10709  
 Ontario 8645  
 Pennsylvania 11731  
 Quebec 4411  
 resistance 559, 6459, 7501, 8645, 8652, 9697, 9710, 9712, 10705  
 yield losses 4411  
 Yugoslavia 6460, 6464  
 pest control  
 Ontario 8480  
 reports 860  
 West Africa 9032  
 pest resistance 6468  
*Plutella xylostella*, China 3420  
*Poeciloceris pictus* 2403  
 pollen, food, *Orius insidiosus* 5424  
*Prostephanus truncatus*, Mexico 7932  
 Pyralidae, Mexico 9704  
 resistance 3441  
*Rhopalosiphum maidis*  
 Pakistan 554, 1444  
 varietal susceptibility 1444  
*Rhopalosiphum padi*, Ontario 6007  
*Richia albicosta*  
 damage 1441  
 economic thresholds 1441  
 Nebraska 1441  
 Scarabaeidae, Mexico 11711  
*Schistocerca gregaria* 6830  
*Schizaphis graminum*, resistance 3442  
*Sesamia calamistis* 5423  
 Benin 10714  
*Sesamia cretica*, Egypt 7442  
*Sesamia nonagrioides* 9700  
 France 3977  
 resistance 9707  
 Spain 2427, 9707  
*Sitotroga cerealella*, resistance 8653  
*Somaticus*, damage 4415  
*Spilartia obliqua* 9748  
*Spodoptera*, Florida 2428  
*Spodoptera exempta* 5422  
 Africa 1436

**Maize cont.**  
*Spodoptera exempta cont.*  
 resistance 556  
*Spodoptera exigua*, Egypt 5414  
*Spodoptera frugiperda* 7677, 10685  
 Georgia 2424, 6461-6462, 10707  
 Guadeloupe 4428  
 New Jersey 549  
 pest resistance 4412  
 resistance 2426, 2430  
 Sao Paulo 4412  
 USA 6463  
*Systena argentinensis*, Argentina 182  
 Termitidae  
 Andhra Pradesh 7678  
 damage 7678  
 Tetranychidae 10618  
*Tetranychus urticae*, USA 10717  
*Zyginidia manaliensis*  
 Indian Punjab 5426  
 resistance 5426  
**Maize bushy stunt**, vectors, *Dalbulus maidis* 8641  
**Maize chlorotic dwarf machovirus**  
 vectors  
 Cicadellidae 4168  
*Graminella nigrifrons* 10721  
**Maize chlorotic dwarf waikavirus**, vectors,  
 Cicadellidae 7684  
**Maize dwarf mosaic potyvirus**, vectors,  
 Aphididae 7687, 10725  
**Maize dwarf mosaic virus**, vectors,  
*Graminella nigrifrons* 10721  
**Maize mosaic nucleorhabdovirus**, vectors,  
*Peregrinus maidis* 11735  
**Maize rough dwarf fijivirus**, vectors, insect  
 pests 7648  
**Maize streak monogeminivirus**, vectors,  
 insects 2803  
**Maize yellow stripe virus**, vectors, *Cicadulina chinai* 10720  
*Malachius*, Greece 8357  
*Malacosoma americanum*  
 Malus  
 Michigan 2552  
 varietal reactions 2552  
 physiology 959  
*Malacosoma californicum pluviale*, patho-  
 gens 4173  
*Malacosoma distria*  
*Betula papyrifera* 5636  
 biochemistry  
 digestive tract 4948  
 membranes 10162  
 biology, population dynamics 8879  
 cell lines, insect growth regulators,  
 effects 9554  
 genetics, genes 9207  
 pathogens 9505  
 physiology, endocrine system 9207  
*Populus*, resistance 3643, 4701  
*Populus tremuloides* 11990  
 damage 8879  
 USA 8879  
 tannins, effects 4948  
*Malacosoma neustria*  
 control, biological control 5625  
 forest trees, Germany 5625  
 Latvia 3260  
 pathogens 3260, 5625  
*Malacosoma neustria testacea*  
 Japan 945  
 morphology 945  
**Maladera**  
 control, chemical control 9673  
 wheat, Indian Punjab 9673  
**Maladera castanea**  
 distribution, Nei Menggu 8673  
 grasslands, Nei Menggu 8673  
**Maladera holosericea**  
 distribution, Nei Menggu 8673  
 grasslands, Nei Menggu 8673  
**Maladera matrida**  
 biology, behaviour 3940, 4634  
 control 687  
 biological control 4755  
 groundnuts  
 damage 4634  
 Israel 687, 4634, 10900  
 insecticides, toxicity 8511  
 Israel 3311

**Maladera matrida cont.**  
 monitoring, traps 3311, 10900  
 parasitoids 4755  
 pheromones 4634  
 plant extracts, effects 3940  
*Verticillium lecanii*, toxins, effects 1260  
**Malathion**  
 analysis, protective clothing 3139  
 bioassays 2297  
 control  
 Acrididae 276  
*Aleurocanthus woglumi*, mandarins  
 5557, 7844  
*Aphis craccivora*, evaluation 8462  
 arthropod pests, watercress 11819  
*Bactrocera cucurbitae*, cucurbit vege-  
 tables 6618  
*Bemisia tabaci*, *Vigna radiata* 11789  
*Ceratitis* 2568  
*Chondracris rosea*, field crops 3295  
*Diaphorina citri*, oranges 8783  
 insect pests  
 asparagus, commodities 6597  
 cabbages 11815  
 raspberries 4570  
 strawberries 7835  
 wheat, seeds 839  
*Lepidoptera*  
 forests 3625  
 sapodillas 5563  
*Leucinodes orbonalis*, aubergines  
 7794, 10827  
*Lipaphis erysimi*, Indian mustard  
 5497, 5698  
*Lygus hesperus*, strawberries 8772-  
 8773  
*Lygus lineolaris*, strawberries 5538  
*Mythimna separata*, rice 2467  
*Myzus persicae*, Chinese cabbages  
 7769  
*Pallasiola absinthii*, grasslands 3481  
*Pieris brassicae*  
 cabbages 8726  
 cauliflowers 618  
*Sitophilus oryzae*, wheat, commo-  
 dities 3705  
 stored products pests, cereal grains  
 847  
*Tortrix viridana*, *Quercus pyrenaica*  
 10940  
 degradation  
 apples 6644  
 cyanobacteria 2309  
 water 4231  
 determination 8565, 10507  
 effects  
*Alectoris rufa* 454  
*Anabes testudineus* 5313  
 birds 1341  
 Coleoptera 10038  
*Corcyra cephalonica* 1325  
*Dugesia tigrina* 4286  
*Eretmocerus debachi* 445  
*Euprotea molifera* 5704  
*Heteropneustes fossilis* 9459  
 laboratory animals 7595  
*Lepomis macrochirus* 2284-2285  
 man 6355  
 marine environment 2297  
 mice 2337  
 onions, cell culture 7595  
 rats 1349, 4315, 4797  
*Sitophilus oryzae* 6889  
*Stethopachys formosa* 12039  
*Tribolium castaneum* 10518  
 zearelenone 9628  
 formulations, water hardness, effects  
 3324  
 herbicides, interactions 3386  
 hydrolysis, mercury 4339  
 mixtures  
 effects, *Lolium rigidum* 3386  
 resistance  
*Aphis gossypii* 10551  
*Hypothenemus hampei* 5293  
 toxicity, *Alectoris rufa* 8569  
 nontarget effects  
 arthropods 3625  
 Braconidae 7521  
 chicks 8541  
*Gammarus pulex* 11819



**Malathion cont.**

nontarget effects cont.

*Metapenaeus ensis* 5320*Parus caeruleus* 10940

residues

apples, commodities 9001

atmosphere 10660

buckwheat, commodities 844

cabbages 11813

cauliflowers 618

determination 3682

extraction 11395

fishes 8551

foods 2360

groundwater 10652

honey 9601

*Lablab purpureus* 9773

mushrooms 3682

determination 3682

removal, fibres 12079

rivers 6379, 10652

sorghum 6476

water 8551

extraction 10649

wheat 468

commodities 4797

resistance

*Anisopteromalus calandrae* 4114

Aphididae 7543

*Aphis gossypii* 10552

Aphytis 7578

*Aphytis melinus* 7816*Bracon hebetor* 9613*Cryptolestes ferrugineus* 5753

Delphacidae 1001

*Frankliniella occidentalis* 6275*Ganaspidium utilis* 9612*Helicoverpa armigera* 4245*Laodelphax striatella* 8178*Myzus persicae* 7769*Nephotettix cincticeps* 437, 7539*Nilaparvata lugens* 4436

parasitoids 9440

*Plodia interpunctella* 9613*Sogatella furcifera* 4437*Tribolium castaneum* 432, 2280, 11585*Xylocoris flavipes* 11419

sorption, bentonite 6391

toxicity

*Anastrepha fraterculus* 8457*Aphytis holoxanthus* 7532*Apis mellifera* 474*Ceratitis capitata* 5697*Cheilomenes sexmaculata* 11611*Chrysoperla rufilabris* 4318

Coleoptera 6864

Crustacea 6373

Diaspididae 7532

fishes 1340, 8528

*Hypsipyla robusta* 8890*Metopolophium dirhodum* 540

Noctuidae 8684

*Penaeus japonicus* 9625*Pseudaulacaspis pentagona* 1584*Ptychocheilus lucius* 3376*Rhagoletis pomonella* 9569*Rhyzopertha dominica* 10037

sorghum 2437

*Steinernema carpocapsae* 7583

stored products pests 833

Tephritidae 7521

*Trichiona picea* 9557**Malawi***Bicyclus* 238

groundnuts, arthropod pests 6713

mangoes, *Rastrococcus iceryoides* 6688*Phaseolus*, *Ophiomyia* 3499

tea, Isoptera 699

trees, Saturniidae 7931

**Malaysia**cabbages, *Plutella xylostella* 1506*Chromolaena odorata*, biological control 11028

cocoa

*Conopomorpha cramerella* 9942*Helopeltis theivora* 3607, 6729coconuts, *Dysmicoccus* 5575

Coleoptera 6942

crops

*Bactrocera occipitalis* 9893**Malaysia cont.**

crops cont.

*Megymenum brevicorne* 3531

Diaspididae 5808

*Dischidia major*, *Philidris* 10289*Echinochloa*, *Enosima leucotaeniella* 6853forest trees, *Diplopsocus* 14*Gigantochloa scortechinii*habitats, *Carvalhofulvius**gigantochloae* 11126

insect pests 5630

Hymenoptera 4104

insects 11445

kumquats, *Monacrostichus malaysiae* 6967

Lithocolletinae 1824

*Macaranga hosei*

arthropods 814

habitats, Formicidae 814

*Mythimna* 10113

oil palms, Psychidae 6708

*Oxya japonica* 1052*Pharbitis purpurea*, *Eumenotes obscura* 5686*Plutella xylostella* 1258, 6336Poaceae, *Nephotettix* 6488

rain forests, Coleoptera 7906

Rhopalocera 3013

rice, *Nilaparvata lugens* 7706

sediment, insecticide residues 484

tropical crops, reports 856

wood, Rhinotermitidae 12065

**Maldison** (see Malathion)**Malephora crocea**, pollen, *Euseius mesembrius* 3220**Mali**

Acrididae 10487

insect pests 10484-10485, 10488

insects 10486

millets, insect pests 8658

*Pennisetum americanum*, Acrididae 5433

sorghum

*Eurystylus immaculatus* 7685

Miridae 4434

**Maliarpha separattella**

parasitoids 1212

rice

Africa 1212

damage 8665

Madagascar 8665

**Maliattha signifera**

Beijing 5272

monitoring, traps 5272

**Malithrin** (see Phenothrin)**Mallada**, taxonomy 9085**Mallada albofacialis**prey, *Icerya aegyptiaca* 9085

taxonomy, new species 9085

**Mallada alcestes**

diets 10350

rearing techniques 10350

**Mallada astur**

biology 319

prey, *Aphis gossypii* 319**Mallada basalis**prey, *Corcyra cephalonica* 8374

rearing techniques 6114, 8374

**Mallada boninensis**

diets 10350

rearing techniques 10350

**Mallada prasina**

ecology, population dynamics 9443

fields, habitats, Hungary 9443

monitoring, traps 9443

**Mallotus philippensis***Metatarchardia fukienensis*, Fujian 22*Metatarchardia hunanensis*, Hunan 22**Malonanylate**, control, *Anthonomus grandis*, cotton 8831**Malus**

Michigan 2552

variatal reactions 2552

**Malus pumila** (see Apples)**Malus sylvestris**, Lepidoptera, Finland 2657*Malva*, Araneae, Switzerland 2759**Malva palviflora**, *Frankliniella occidentalis* 6263**Mamestra brassicae**

biochemistry

chemical composition 9575

**Mamestra brassicae cont.**

biochemistry cont.

enzymes 4923

proteins 5942

biology 7771

behaviour 5061

environmental factors 7229

cabbages 9614

Netherlands 7771

cauliflowers, Belgium 11809

cell lines

*Beauveria sulfurescens*, toxins, effects 4200

biochemistry 8171

pathogens 373, 4191, 11512

serum replacements, effects 4075

control, cultural control 7771

enzyme inhibitors, toxicity 4923

genetics, polymorphism 5952

growth regulators, effects 3410

heavy metals, effects 10503

insecticides

effects 9575

pathogenicity 5246

toxicity 4266

Moldova 9417

monitoring, traps 11809

parasitoids 4117-4118, 9417, 9614

pathogens 391, 5224, 5234, 6241, 7397, 7460

pheromones, analogues 4359

physiology

hormones 10149

thermoregulation 5952

potatoes, Hokkaido 7754

predators 7754

Russia 4359

UK 6241

**Mamestra configurata**

biochemistry, proteinases 8803

biological control agents, evaluation 11540

biology 7772

food plants 7772

morphology, sensilla 9124-9125

parasitoids 11540

physiology, sensilla 5925-5926

plant extracts, antifeedants 6397

**Mamestra oleracea** (see *Lacanobia oleracea*)**Mammals**

insecticides, effects 1364

molluscicides, effects 448

pesticides

effects 508, 4283, 6366

residues 5328

prey, *Zethenia rufescentaria* 10976**Man**

cell lines, insecticides, effects 9594

fumigants, toxicity 11641

insecticides

carcinogens 481

effects 1371-1372, 1684, 2253, 3370,

3709, 4312, 4316, 6355, 7592,

7603, 8531, 8536, 11623

exposure, evaluation 11622

intake 10576

poisoning 1363

residues 465, 4290, 7561, 8522,

8538, 8562, 8564, 9385, 10623,

11633

analytical methods 2318

models, conferences 2813

safety 2081, 7556

toxicity 1365, 2315, 2319-2320,

2823, 10569

toxicology 479

Lepidoptera, rearing techniques, effects

9401

pesticides

effects 473, 476, 482, 1356-1361,

2339, 3354, 4281, 7574-7575,

7593, 8560, 10579, 10601,

10627, 11636

reviews 10571, 10662

exposure 3160, 5350, 11639

assessment 5106, 9385

nontarget effects

reviews 1361

USA 2306



**Man cont.**

- pesticides cont.
  - poisoning 7600, 8532, 8544, 9624, 10570
  - residues 1351, 5342, 7602
  - monitoring 255
  - safety 7568, 8524
- Pyemotes tritici*, dermatitis 3193
- skin, insecticides, metabolism 8523
- Tetranychus urticae*, allergies 8355-8356
- urine, insecticides, residues 480

**Mancozeb**

- effects, *Empoasca vitis* 11885
- nontarget effects
  - apples, mites 11848
  - Drosophila melanogaster* 1348
- resistance, *Kampimodromus aberrans* 1560, 8775

**Mandarin** (*Citrus deliciosa*, *C. resnyi* and *C. reticulata*)

- Aleurocanthus woglumi*
  - India 7844
  - Madhya Pradesh 11894
  - Maharashtra 5557
- Anoplophora versteegii*, Assam 9884
- Brevipalpus*, Florida 2578
- Cribrolecanium andersoni*, South Africa 8784
- Deudorix isocrates*, India 7843
- Eutetranychus orientalis*
  - Rajasthan 9883
  - varietal susceptibility 9883
- Frankliniella occidentalis*
  - damage 11891
  - Honshu 11891
- pollen, *Euseius mesembrinus* 3220
- Pulvinaria flavescentis*
  - Brasilia 3559
  - resistance 3559

**Manduca**

- biochemistry, enzymes 4917
- parasitoids 8082

**Manduca quinque-maculata**

- control, biological control 702
- parasitoids 702
- tobacco, Ontario 702

**Manduca sexta**

- allelochemicals, effects 5858
- Bacillus thuringiensis*, toxins, toxicity 11485
- biochemistry
  - amino acids 83
  - chemical composition 8176
  - development 10219
  - digestive system 2927, 2929, 5896-5897, 7464
  - endocrine system 1909, 3854, 7094, 9203, 10192, 11217, 11220
  - enzymes 2909, 5868, 5878, 7047, 8131, 8346, 10161, 11258
  - haemocytes 2940
  - haemolymph 4945, 8143, 8202
  - immune response 9183, 10201
  - immune system 85
  - insecticide resistance 10207
  - juvenile hormones 10195
  - metabolism 9208
  - membranes 10162
  - metabolism 4930
  - reviews 8166
  - muscles 11197
  - nervous system 9188
  - neurons 10196
  - peptides 3866, 7068, 9153
  - pheromones 8141, 9176
  - proteinases 7425
  - proteins 991, 2905, 3865, 4971, 5946, 7103, 8170
  - prothoracicotropic hormones 8129
  - receptors 7095
  - reproduction 7085
- biological control agents, evaluation 2175
- biology 10150
  - behaviour 11297
  - development 2896
  - environmental factors 231, 235
  - flight 10261
  - cell lines, pathogens 2172
  - coumarins, effects 4230
  - food plants
    - Maryland 4641

**Manduca sexta cont.**

- food plants cont.
    - resistance 8743
  - forests, Costa Rica 11297
  - genetics 997, 5977
    - complementary DNA 8202
    - enzymes 11258
    - gene expression 8510, 11248
    - genes 1946, 5995, 10224, 11253, 11260
  - growth regulators, effects 102, 8510, 11683
  - insecticides, pathogenicity 357, 9461
  - maize, resistance 9713
  - morphology, nervous system 116, 2877
  - parasitoids 1215, 2884, 4641, 4930, 4945, 9153, 11220
  - pathogens 2172, 2175, 2198, 3265, 4912, 4945, 7464, 9513, 11495
  - pheromones 991, 7076
  - physiology
    - carbohydrate metabolism 7049
    - cardiovascular system 10174
    - chemical composition 4975
    - development 80, 11260
    - digestive system 106-108, 976, 2915, 4949, 5899
    - diuresis 109
    - endocrine system 132, 139, 979, 2937, 3855, 9206
    - excretory system 5902
    - flight 1885
    - haemolymph 2925
    - hormones 102, 3153, 5887-5888, 9171
    - immune response 4912, 9513
    - metabolism 11185
    - muscles 11198
    - nervous system 113, 119, 2934, 4954-4955, 5906, 5909-5910, 5915-5916, 7075-7076
    - neuropeptides 8162
    - neurosecretory system 5917
    - sense organs 8156
    - sensory system 11206
  - predators 3133, 6171
  - sense organs, recording 4073
  - tobacco, resistance 703, 2233, 9944
- Mangel** (see Mangolds)
- Mangifera**, *Aleurocanthus woglumi* 10046
- Mangifera indica** (see Mangoes)
- Mangoes** (*Mangifera indica*)
- Aceria mangiferae*, South Africa 2582
  - Anastrepha*, Mexico 2583
  - Anastrepha obliqua* 3788
  - Anoplocnemis curvipes*, South Africa 10882
  - arthropod pests, West Bengal 5558
  - Bactrocera* 6945
  - Bactrocera caryae* 9882
  - Bactrocera dorsalis*
    - Andaman and Nicobar Islands 11887
    - Hawaii 2236
  - Bactrocera kandensis*, Sri Lanka 9894
  - Bactrocera occipitalis*, South East Asia 9893
  - Bactrocera philippinensis*, Philippines 9892
  - books 882
  - Ceratitidis capitata* 10873
  - Cisaberoptus kenya*
    - Uttar Pradesh 9895
    - varietal reactions 9895
  - commodities
    - insect pests
      - control 8013
      - hot water treatment 2769
    - Sternonchus mangiferae* 6891
  - conferences 9025
  - Deanolis albizonalis*
    - Andhra Pradesh 10881
    - yield losses 10881
  - Formicidae, Western Australia 670
  - habitats, *Euschistus heros*, Parana 5395
  - insect pests, South Africa 8790
  - insecticides, residues 5347
  - insects
    - pollination 659, 10872
    - South Africa 10872
  - Microceropsylla nigra*, Ryukyu Archipelago 7853

**Mangoes cont.**

- orchards, *Gyranusoidea tebygi*, Benin 10884
  - pest control 882
    - Asia 8789
  - pesticides, effects 669
  - pests
    - books 8041
    - control 8041
  - Procontarinia allahabadensis* 932
  - Pseudotheraptus wayi*, South Africa 10883
  - Rastrococcus iceryoides*, Malawi 6688
  - Rastrococcus invadens*
    - Benin 10884, 11904
    - resistance 11904
    - Togo 1562
  - Sternonchus frigidus*, Philippines 11906
  - Tephritidae
    - Costa Rica 5548
    - Goias 7840
  - Thysanoptera, Andhra Pradesh 4596
- Mangolds** (*Beta vulgaris*)
- Pegomya betae*
    - Poland 5486
    - resistance 5486
- Mangrove forests**
- insects
    - Kalimantan 728
    - Panama 213
- Mangroves**
- insect pests
    - Belize 722
    - damage 722
  - Nasutitermes nigriceps*, Jamaica 2684
- Manica rubida**
- biology, behaviour 3952, 5126
  - Formica selysi*, interactions 5126
  - physiology, secretions 5126
- Manihot esculenta** (see Cassava)
- Manihot esculenta** × **Manihot glaziovii**, *Phenacoccus manihoti*, resistance 5480, 8712
- Manihot pseudoglaziovii**, *Mononychellus tanajoa* 11702
- Manilkara paraensis**, *Coptotermes*, Amazonia 5628
- Manilkara zapota** (see Sapodillas)
- Manioli jurtina**
- ecology, habitats 7243
  - morphology 6994
  - Poland 6994
  - UK 7243
- Mansonella altissima**, *Godasa sidae*, Cameroon 10929
- Mantidae**
- Ailanthus*, forests, India 2673
  - prey
    - Agrotis biconica* 4635
    - Atteva fabriella* 2673
- Mantis religiosa**
- Delaware 226, 4035
  - ecology
    - arthropod communities 4035
    - environmental factors 226
- Mantispa viridis**
- biology
    - environmental factors 7161
    - reproduction 7012
  - prey, *Latrodectus mactans* 7012
  - South Carolina 7012, 7161
- Mantodea**
- distribution, Arab countries 2041
  - Mongolia 5098
- Maples** (see *Acer*)
- Maps**
- Bactrocera carambolae* 9897
  - Bactrocera caryae*, South Asia 9882
  - Bactrocera dorsalis* 9350
  - Bactrocera dorsalis* group 8309
  - Bactrocera kandensis*, Sri Lanka 9894
  - Bactrocera occipitalis*, South East Asia 9893
  - Bactrocera papayae* 9351
  - Bactrocera philippinensis*, Philippines 9892
  - Bactrocera pyrifoliae*, Thailand 9898
  - Coleoptera, Norway 1692
- Marasmarcha pumilio**
- distribution, Galapagos Islands 5091
  - taxonomy 1804



- Marasmia patnalis**  
genetics, cytogenetics 11246  
Philippines 11246  
rice, resistance 573
- Marasmia trapezalis**, *Pennisetum americanum*, resistance 7693
- Margarodidae**  
distribution, Mexico 10311  
ornamental plants, Sicily 12023  
taxonomy 10311
- Mariana Islands**, *Bactrocera dorsalis* 9350
- Marietta carnesi**  
hosts, *Pseudauleaspis pentagona* 11956  
monitoring, traps 11956  
tea, plantations, Japan 11956
- Marine animals**  
insecticides, residues 1379  
pesticides, residues 8558
- Marine environment**  
insecticides  
effects 2297  
movement, models 9632  
residues 2354, 3380  
organochlorine compounds, determination 2383  
pesticides, residues 3389  
pollutants, separation 2351
- Marine mammals**  
insecticides, effects 3378  
organochlorine compounds, effects 3380-3381  
pesticides, residues 472, 5346
- Marine structures**  
*Pselactus spadix*  
damage 12081  
UK 12081
- Maritime pine** (see *Pinus pinaster*)
- Markcyper** (see Cypermethrin)
- Marrows** (see also *Cucurbita* spp.)  
Aphididae  
Italy 2538, 10836  
Queensland 1527  
Taiwan 10837  
*Bemisia* 9823  
Homoptera  
damage 8747  
Hawaii 8747  
pest control, Poland 1513  
*Trialeurodes vaporariorum*  
damage 11823  
Uzbekistan 11823
- Marrubium supina**, effects, *Orius sauteri* 644
- Marshes**, *Agonum*, Alberta 5072
- Martinique**, *Citrus*, *Toxoptera citricidus* 4591
- Maruca testulalis** (see *M. vitrata*)
- Maruca vitrata**  
biology  
development 8336  
diets 9272  
control  
chemical control 593, 595, 1488, 11785  
cultural control 595  
integrated control 8704  
cowpeas  
Benin 6547, 6549  
Chad 8704  
damage 6549  
Nigeria 595-596, 1487-1488, 10781, 11785, 11788  
resistance 1487, 11787-11788  
Sri Lanka 1489  
diets 8336  
ecology, population dynamics 596, 6547, 7742  
field crops  
Kenya 1418  
resistance 1418  
pigeon peas, Bihar 7742  
rearing techniques 8336, 9407
- Masai** (see Tebufenpyrad)
- Masakimya pustulae**, *Euonymus japonicus*, Japan 6802
- Mastotermes darwiniensis**  
insecticides, effects 10534  
*Pinus radiata*, wood 11045  
polychlorinated biphenyls, residues 1334  
taxonomy 45, 9079  
wood preservatives, effects 11045
- Mating disruption**  
control  
*Cadra cautella*, dates 7839  
*Ceratitis capitata* 8464  
*Cydia molesta*, peaches 6659-6660  
*Cydia nigricana* 4480  
*Cydia pomonella* 2549  
apples 5525, 11858  
*Epiphyas postvittana*, apples 7820  
Lepidoptera 11692  
cotton 4655, 5610  
*Lobesia botrana* 4575  
grapes 9870-9871, 9875  
*Orgyia pseudotsugata*, Pinopsida 4718  
*Pectinophora gossypiella*, cotton 3619  
*Platynota idaeusalis*, apples 6640  
*Plutella xylostella*, cabbages 6575  
*Spodoptera exigua*, field crops 6407  
Tortricidae 1538, 6626, 9862  
apples 4552  
fruits 2543-2544
- Matricaria**, *Apion hookeri* 820
- Matricaria chamomilla** (see *Chamomilla recutita*)
- Matricaria inodora**, *Napomyza lateralis*, Yugoslavia 6015
- Matricaria inodora** (see *Matricaria perforata*)
- Matricaria perforata**  
*Apion hookeri* 820  
Nova Scotia 252  
biological control agents, evaluation 820  
insects  
interactions 11020  
Switzerland 2759
- Matricaria recutita** (see *Chamomilla recutita*)
- Matsucoccus**  
distribution, Mediterranean Region 2697  
*Pinus massoniana*, Zhejiang 6787  
*Polyrhachis vicina*, interactions 6787  
predators 2697
- Matsucoccus acalyptus**  
*Pinus*  
Arizona 10963  
varietal reactions 10963
- Matsucoccus feytaudi**  
biology 5667  
control 5667  
distribution, Italy 5667  
ecology 5667  
monitoring, traps 5673  
pheromones 1395, 5673  
*Pinus pinaster* 1395  
damage 7941  
France 5673, 7941  
Italy 5667
- Matsucoccus josephi**  
distribution, Middle East 9988  
pheromones 12009  
physiology, pheromones 11695  
*Pinus*  
Israel 12009  
Mediterranean Region 2697  
predators 2691, 9988, 12009
- Matsucoccus matsumurae**, pheromones 7630
- Matsucoccus resinosae**, pheromones 7630
- Matsucoccus thunbergianae**  
biology, behaviour 7947  
ecology, population dynamics 7947  
monitoring, traps 5672, 12014  
pheromones 5672, 7630, 12014  
*Pinus thunbergiana*, Korea Republic 7947  
*Pinus thunbergii* 12014  
Korea Republic 5672
- Mattesia**, hosts, *Prostephanus truncatus* 7436
- Mattesia alphitobii**, hosts, *Alphitobius diaperinus* 2158
- Matthiola incana**, *Plutella xylostella*, China 3420
- Mauritania**  
Acrididae 4079  
crops, *Schistocerca gregaria* 8468  
insect pests 10485, 10488
- Mauritius**  
bananas, *Erionota thrax* 1563  
Brassicaceae, *Crocidolomia binotalis* 8960
- Mauritius cont.**  
insect pests 1413  
mangoes, insecticide residues 5347  
Nymphalidae 9375
- Mavrik** (see Fluvialinate)
- Mayetiola destructor**  
barley  
resistance 9690  
USA 9690  
biology 6429  
biotypes 4402  
cereals  
damage 9667  
Tunisia 9667  
control  
chemical control 6447  
cultural control 6448  
fumigants 6872  
heat treatment 6873  
genetics, DNA 6435  
*Phleum pratense*, hay 6872  
Poaceae, Georgia 9670  
taxonomy 6429  
wheat  
commodities 6873  
damage 6446  
Morocco 5403  
resistance 2416, 4402, 6435, 6445, 7664, 8634, 9683, 9687  
Spain 6429, 6446-6448  
USA 4402, 6435, 9687
- Mayetiola hordei**  
barley, Spain 6429  
biology 6429  
taxonomy 6429
- Mayetiola mimeuri** (see *Mayetiola hordei*)
- Mayrencyrus merceti**, hosts, *Kuwanina rubra* 9271
- Maytenus canariensis**, extracts, toxicity, *Spodoptera littoralis* 4763
- MBC** (see Carbendazim)
- Meadows**  
*Agriotes sputator*, Switzerland 4771  
Coleoptera, Anhui 10290  
Diplopoda, Czech Republic 7251  
fields, Carabidae, Alberta 8375  
*Hypodryas gillettii*, USA 173  
insects, Austria 4452  
*Pterostichus*, Germany 6998
- Mealybugs** (see Pseudococcidae)
- Meat**  
insecticides  
residues 1763, 2345, 4789  
detection 2061  
pesticides, residues 467, 4793, 5336
- Meat products**, pesticides, residues, Spain 2298
- Mechanitis lysimnia**  
biology, behaviour 1093  
*Solanum*, Sao Paulo 1093
- Mechanitis polymnia**  
biochemistry, chemical composition 7102  
diets 7102
- Mecicobothriidae**, checklists, Uruguay 8321
- Mecinus janthinus**, control, *Linaria dalmatica*, evaluation 6860
- Medetera dendrobaena**  
biology 10972  
*Picea abies*, forests, Germany 10972  
prey, *Pityogenes chalcographus* 10972
- Medicago**  
Acari  
damage 11704  
varietal reactions 11704  
*Halotydeus destructor*  
Australia 11764  
varietal reactions 11764
- Medicago murex**  
*Halotydeus destructor*  
Australia 11764  
varietal reactions 11764
- Medicago sativa** (see Lucerne)
- Medicinal plants**  
commodities, *Pycnoscelus*, Guangdong 3712  
*Lycoriella pleuroti*, China 12041  
pest control 6818
- Medicinal properties**, *Achatina fulica*, extracts 349
- Mediterranean Region**  
*Apion hookeri* 820



**Mediterranean Region cont.**

- Centaurea*, insects 1225  
*Ceratitis capitata* 10233  
 greenhouse crops, Aleyrodidae 11447  
 greenhouses, habitats, Miridae 11447  
*Onopordum*, natural enemies 6856  
*Pinus*, forests, *Elatophilus* 2697

**Mediterranean region, *Pinus*, *Matsucoccus josephi*, predators 2697****Meetings (see Conferences)*****Megacephala euphratica*, genetics, ribosomal DNA 8196*****Megachile apicalis*, biology, behaviour 1994*****Megachile rotundata***

- biology, behaviour 1994  
 insecticides, effects 10617  
 pathogens 2164  
 toxicity 9600

***Megadril*, insecticides, effects 7563*****Megalodontes*, taxonomy 3753*****Megalodontesidae*, taxonomy 3753*****Megalodontidae*, taxonomy 3753*****Megaloxantha* (see *Chrysochroa*)*****Megalurothrips distalis***

- control, chemical control 1473  
 ecology, population dynamics 9860  
 mangoes, Andhra Pradesh 4596  
 mulberries, West Bengal 9860  
 soyabeans, Andhra Pradesh 1473  
*Vigna radiata*, Uttar Pradesh 10780

***Megalurothrips sjostedii***

- control  
   chemical control 595, 1488, 11785  
   cultural control 595  
   integrated control 8704  
 cowpeas  
   Chad 8704  
   Nigeria 595, 1488, 11785  
 ecology, population dynamics 6417  
 food plants, Kenya 6417  
 grain legumes  
   reviews 9757  
   South Africa 9757  
 predators 6417

***Megalurothrips usitatus***

- control, chemical control 8697  
 pigeon peas, Delhi 8697

***Megalyra fasciipennis***

- hosts, *Phoracantha* 9971  
 South Africa 9971

***Megaphorus willistoni***

- biology 3228  
 fields, habitats, Montana 3228  
 morphology 3228

***Megaponera foetens***

- biochemistry, secretions 2917  
 biology, behaviour 3930  
 Cote d'Ivoire 3930  
 Kenya 2917  
 pheromones 3930

***Megarhyssa*, taxonomy 2833*****Megarhyssa atrata atrata***

- ecology, population dynamics 2833  
 hosts, *Tremex columba* 2833  
 Quebec 2833

***Megarhyssa atrata lineata***

- ecology, population dynamics 2833  
 hosts, *Tremex columba* 2833  
 Quebec 2833

***Megarhyssa greenei greenei***

- ecology, population dynamics 2833  
 hosts, *Tremex columba* 2833  
 Quebec 2833

***Megarhyssa macrurus lunator***

- ecology, population dynamics 2833  
 hosts, *Tremex columba* 2833  
 Quebec 2833

***Megarhyssa nortoni quebecensis***

- ecology, population dynamics 2833  
 hosts, *Tremex columba* 2833  
 Quebec 2833

***Megaselia***

- attractants 6396  
 Hawaii 6396

***Megaselia giraudii***

- Acer*, Europe 1826  
 parasitoids 1826

***Megaselia halterata***

- control, biological control 7993  
 misidentification 5699  
 mushrooms 7993

***Megaselia halterata* cont.****mushrooms cont.**

- Pennsylvania 813

***Megaselia miki*, distribution, France 3206*****Megaselia nigra*, misidentification 5699*****Megaselia pleurota***

- Pleurotus sajor-caju*, India 5699  
 biology 5699  
 taxonomy, new species 5699

***Megaselia scalaris***

- Pleurotus sajor-caju*, India 5699  
 bacteria, interactions 5699  
 biology 5699  
 genetics, mutants 5974  
 hosts, *Macroductylus murinus* 3440  
 maize, fields, Mexico 3440

***Megasoma thersites*, taxonomy 2855*****Megaspilidae*, hosts, Hymenoptera 563*****Megastigmus habui***

- hosts, *Trichagalma serrata* 11306  
*Quercus acutissima*, habitats, Honshu 11306

***Megastigmus spermotrophus***

- control, chemical control 2713  
*Pseudotsuga menziesii*, Poland 2713

***Megoura viciae***

- biology  
   circadian rhythm, models 3946  
   photoperiodism, models 9337  
 genetics  
   chromosomes 2984  
   DNA 11259  
   reproduction, biology 951

***Megymenum brevicorne***

- biology, life cycle 3531  
 crops, Malaysia 3531

***Meigena mutabilis***

- hosts, *Chrysomela tremula* 6760  
*Populus*, forests, France 6760

***Meioneta prosectes***

- ecology, population dynamics 1417  
 prey, *Atherigona soccata* 1417  
 sorghum, fields, Burkina Faso 1417

***Meioneta rurestris***

- biology, behaviour 7336  
 ecology, population dynamics 11929  
 fields, UK 7336  
 monitoring, traps 11929  
 olives, orchards, Italy 11929

***Melaleuca*, *Wingia* group, Australia 6981*****Melaleuca leucadendron*, extracts, repellents, *Ochetomyrmex auropunctatus* 1402*****Melaleuca quinquenervia***

- biological control agents, evaluation 8981, 12057  
 oils, effects, *Tribolium castaneum* 410  
*Oxyops vitiosa*, Australia 8981, 12057

***Melanagromyza aeneoventris***

- Cardueae, Germany 8986  
 ecology, interspecific competition, models 11014

***Senecio jacobaea*, UK 11014*****Melanagromyza amaranthi*, taxonomy, synonyms, of *M. consueta* 251*****Melanagromyza consueta***

- distribution, Dominican Republic 251  
 taxonomy, synonyms, *M. amaranthi* 251

***Melanagromyza eupatorii***

- ecology, interspecific competition, models 11014

***Senecio jacobaea*, UK 11014*****Melanagromyza obtusa***

- control 7744  
   chemical control 593, 8697, 11784  
   cultural control 9762  
 ecology, population dynamics 7742  
 parasitoids 11780  
 pigeon peas  
   Bihar 7742  
   Delhi 8697  
   Gujarat 9762, 11784  
   Haryana 7744  
   Himachal Pradesh 9761, 11782  
   Kerala 11780  
   Maharashtra 9764  
   Rajasthan 11781, 11783  
   resistance 6546, 9764, 10774, 11782  
   varietal susceptibility 9761-9762  
   yield losses 11783

***Melanagromyza sojae***

- control, chemical control 1473, 3494, 9749

**Indonesia 10101****parasitoids 10101****soyabeans****Andhra Pradesh 1473****Delhi 9749****Heilongjiang 10753****Madhya Pradesh 6534, 10755****Maharashtra 11769****resistance 6534, 6538, 11769****Shandong 3494****weed control, effects 10755*****Melanagromyza spencerella* (see *Ophiomyia spencerella*)*****Melanaphis sacchari***

- biology, phenology 2608  
 control, chemical control 7689  
 maize 9693  
 parasitoids 9693  
 plant pathogens, transmission 2608  
 sorghum, Maharashtra 7689  
 sugarcane, Queensland 2608

***Melanaphis yasumatsui***

- biology, life cycle 7998  
 ecology, population dynamics 7998  
 Formicidae, interactions 7998  
*Miscanthus sinensis*, Japan 7998

***Melanaspis glomerata***

- control, cultural control 10906  
 sugarcane

**Madhya Pradesh 7879****Uttar Pradesh 10906****yield losses 7879*****Melandryidae***

- distribution, Slovakia 7281  
 indicator species 7281

***Melanitis leda***

- biology, life history 3464  
 China 921  
 ecology, population dynamics 3461  
 parasitoids 921  
 rice 3464  
   West Bengal 3461

***Melanocallis caryaefoliae***

- biology, behaviour 4610  
 pecans, resistance 4610

***Melanogryllus desertus*, physiology 3811*****Melanoides granifera*, insecticides, effects 3352*****Melanoides tuberculata*, insecticides, effects 3352*****Melanolophia commotaria***

- Pinus patula*  
 Colombia 8907  
 damage 8907

***Melanolophia imitata*, forest trees, British Columbia 6800*****Melanophila*, taxonomy 10090*****Melanophila cyanea***

- ecology 7944  
*Pinus sylvestris*, forests, Germany 7944

***Melanophthalma distinguenda***

- pathogens 1257  
 Spain 1257

***Melanoplus***

- biology, behaviour 5448  
 ectoparasites 27

**rangelands, Wyoming 5448*****Melanoplus bivittatus***

- biochemistry, chemical composition 339  
 biology

**behaviour 5046****environmental factors 4012, 9334****Colorado 9334****control, chemical control 8681****ecology****interspecific competition 8681****population dynamics 6517****insects as food 339****lucerne, Utah 8681****Michigan 339****parasitoids 9431****rangelands, Montana 6517****USA 9431*****Melanoplus devastator* (see *M. sanguinipes*)*****Melanoplus differentialis*****biology****behaviour 5043, 5046****environmental factors 4012**



- Melanoplus differentialis** *cont.*  
physiology, digestive system 10163
- Melanoplus femurrubrum**  
ecology, population dynamics 6146  
grasslands, Montana 581  
Montana 6146  
predators 581, 6158
- Melanoplus gladstoni**, genetics, ribosomal DNA 5985
- Melanoplus occidentalis**  
biology, behaviour 5448  
rangelands, Wyoming 5448
- Melanoplus packardii**  
biology, behaviour 4080  
control, chemical control 8681  
ecology  
interspecific competition 8681  
population dynamics 6517  
genetics, ribosomal DNA 5985  
lucerne, Utah 8681  
Montana 4080  
rangelands, Montana 6517
- Melanoplus sanguinipes**  
*Ageneotettix deorum*, interactions 3689  
biochemistry  
chemical composition 8177  
lipids 7107  
membranes 10162  
proteins 4972, 11227  
biology  
behaviour 5043, 5046  
development 186  
environmental factors 4012  
California 186  
control, chemical control 5261, 8681  
diets 8177  
ecology  
interspecific competition 3689, 8681  
population dynamics 6146, 6517  
food plants 8177  
genetics  
genetic variation 7107  
mitochondrial DNA 7149  
ribosomal DNA 5985  
grasslands  
Arizona 5261  
Montana 581  
insecticides, pathogenicity 9481  
lucerne, Utah 8681  
Montana 6146  
parasitoids 9431  
pathogens 4141, 4145, 4179, 4213, 9599, 10431  
physiology, reproductive organs 8160  
predators 581  
rangelands, Montana 6517  
USA 9431  
wild plants, Alaska 3689
- Melanostoma fasciatum**  
cabbages, fields, New Zealand 6577  
cultural methods, effects 6577
- Melanostoma mellinum**  
cereals, fields, Germany 8625  
ecology, population dynamics 8625
- Melanotinae**, morphology, reproductive organs 7007
- Melanotus**  
Japan 6289  
monitoring, traps 6289  
sugarcane, Florida 10904
- Melanotus communis**  
sampling 10904  
sugarcane, Florida 10904
- Melanotus fortnumi**  
predators 611  
sweet potatoes  
damage 611  
Honshu 611
- Melanotus senilis**  
Japan 6288  
monitoring, traps 6288
- Melastoma malabathricum**, *Hyalopeplus vitripennis*, Ryukyu Archipelago 5711
- Melia azedarach**  
*Diploschema rotundicollis*, Rio Grande do Sul 10876  
extracts  
antifeedants  
*Pieris rapae* 9660  
*Spodoptera exigua* 8613
- Melia azedarach** *cont.*  
extracts  
effects  
*Plutella xylostella* 6831  
*Schistocerca gregaria* 8351  
*Spodoptera exigua* 3318  
insecticidal properties 6831
- Meliaceae**, extracts, antifeedants, *Peridroma saucia* 10018
- Melicleptria scutosa** (see *Protoschinia scutosa*)
- Meligethes**  
crops, Germany 2130  
distribution, UK 3104  
parasitoids 8801  
rape, Sweden 8801
- Meligethes aeneus**  
biology 5570  
behaviour 7775  
fertilizers, effects 3578  
monitoring, traps 5570, 7775  
morphology, reproductive organs 4889  
plant extracts, effects 7775  
rape  
Czech Republic 5570  
Poland 3577  
resistance 3577  
turnip rape, Finland 3578
- Melilotus**, *Tychius meliloti*, Canada 6526
- Melilotus alba**, *Thysanoplusia orichalcea*, India 1469
- Melilotus officinalis**, *Bradysia*, damage 8670
- Melioidae**, extracts, antifeedants, *Peridroma saucia* 10018
- Melipotis indomitica**, *Prosopis* 821
- Melittaea cinxia**  
ecology, population dynamics, models 1136, 4027  
Finland 4027
- Melittara prodenialis** (see *Zophodia prodenialis*)
- Melittobia**  
hosts  
*Osmia tricornis* 5148  
*Trypoxylon politum* 8386  
*Trypoxylon politum*, USA 8386
- Melittobia femorata**  
hosts, *Trypoxylon politum* 8386  
*Trypoxylon politum*, USA 8386
- Mellicta ahalia**  
ecology, *Polyommatus* 254  
Switzerland 254
- Meloboris collector**, hosts, *Agrotis segetum* 11454
- Meloboris xylostellae**  
crops, habitats, Hokkaido 6588  
hosts, *Plutella xylostella* 6588  
taxonomy, new species 6588
- Meloe proscarabaeus**  
genetics, ribosomal RNA 10220  
phylogeny 10220
- Meloidae**  
distribution  
Arab countries 2042  
Greece 9364  
morphology, male genitalia 10129  
Nicaragua 10317  
Xinjiang 10129
- Meloidogyne incognita**, insecticides, effects 9749
- Melolontha**, hazelnuts 9907
- Melolontha hippocastani**, pathogens 2187, 11506
- Melolontha melolontha**  
biology 1969  
control 8620  
chemical control 11549  
crops, Germany 8620  
Hungary 11549  
pathogens 1969, 2169, 11483  
Switzerland 1969
- Melons** (*Cucumis melo*)  
*Acalymma vittatum*, Indiana 9822  
*Anastrepha grandis*, Venezuela 8796  
Aphididae, Mexico 3532  
Aphidoidea  
California 11910  
Costa Rica 10891  
*Aphis gossypii*  
France 9821  
Italy 11833
- Melons** *cont.*  
*Aphis gossypii* *cont.*  
resistance 9827  
*Aulacophora foveicollis*  
Rajasthan 9820  
varietal susceptibility 9820  
*Aulacophora indica*  
economic thresholds 1582  
Guam 1582  
*Bactrocera depressa*  
damage 6599  
Korea Republic 6599  
*Bemisia argentifolii*, California 10794  
*Bemisia tabaci*  
Arizona 4538, 4542, 9819  
Australia 10833  
California 6595, 6696  
Costa Rica 629  
resistance 6622  
*Cathartus quadricollis* 836  
extracts, attractants, *Aulacophora foveicollis* 638  
fields, *Eretmocerus*, California 6696  
habitats  
beneficial insects, France 9821  
predators, Italy 5174  
*Helicoverpa zea*, Nicaragua 7799  
*Liriomyza trifolii* 10275  
*Tetranychus cinnabarinus*  
Israel 5562  
resistance 5562  
*Thrips palmi*, Venezuela 624, 5462
- Melosipiza melodia**, pesticides, consumption 11645
- Membracidae**  
Australia 6953  
crops, USA 4393  
Formicidae, interactions 940  
morphology 940  
parasitoids 4838  
predators 4393  
reviews 7002  
taxonomy 6953
- Membranes**, pesticides, effects 9550
- Menida histrio**  
rice  
damage 9732  
Orissa 9732
- Menida scotti**  
biology  
diapause 1865  
reproduction 1865
- Menida violacea**  
okras  
damage 10838  
Japan 10838
- Menidia beryllina**, insecticides, effects 9599
- Menochilus**  
biology, environmental factors 7727  
crops, habitats, Bihar 7727  
prey, *Aphis craccivora* 7727
- Menochilus sexmaculatus** (see *Cheilomenes sexmaculata*)
- Mentha**  
insecticides, residues 7983  
*Spodoptera litura* 3419
- Mentha aquatica**, Chrysomelidae, UK 7994
- Mentha arvensis**  
*Aphis affinis*, Himachal Pradesh 8955  
extracts, control, *Sitophilus oryzae*, sorghum, commodities 8025
- Mentha piperita**  
*Fumibotrys fumalis*, USA 1183  
*Hulstia undulata*, Idaho 1183  
odours, effects, *Myzus persicae* 7981
- Menthol**  
toxicity  
*Apis mellifera* 8571  
*Varroa jacobsoni* 8571
- Meothrin** (see Fenprothrin)
- Mephosolan**  
control, *Melanogromyza sojae*, soyabeans 9749  
effects, plant parasitic nematodes 9749
- Mepiquat**, control, *Anthonomus grandis*, cotton 8831
- Meranoplus**, morphology, venom glands 8101
- Meranoplus diversus**, morphology, venom glands 8101
- Mercaptothion** (see Malathion)



- Mercury**  
effects  
*Aiolopus thalassinus* 3314  
*Neochetina eichhorniae* 3692  
*Pterostichus niger* 11561  
soil invertebrates 10077  
hydrolysis, insecticides 4339
- Mergus serrator**, insecticides, effects 8537
- Merismus aculeatus**, taxonomy, synonyms, of *Sphegigaster pedunculiventris* 9049
- Merisus splendidus**, taxonomy 9049
- Mermiria bivittata**, *Pascopyrum smithii*, Colorado 4454
- Mermis subnigrans**, control, Acrididae, evaluation 6144
- Mermithidae**  
hosts  
*Amphimallon solstitialis* 2187  
*Atteva fabriella* 2673  
*Ectropis obliqua* 2119  
Scarabaeidae 10441
- Merobruchus columbinus**, *Samanea saman*, Honduras 5631
- Merobruchus major**  
*Pithecellobium ebanum*  
damage 6768  
Mexico 6768
- Merodon**, taxonomy 897
- Meromyza americana**, parasitoids 8090
- Merophyas divulsana**  
distribution, New Zealand 4464  
*Lotus uliginosus*, New Zealand 4464
- Merophyas leucaniana**  
biochemistry, pheromones 675  
pheromones 675
- Merotheripidae**  
biology, overwintering 9279  
food plants, North Carolina 9279  
Taiwan 7292
- Mesochorus**, hosts, *Ladoga camilla* 8288
- Mesochorus discitergus**  
distribution, Korea Democratic People's Republic 4042  
hosts  
*Cotesia marginiventris* 6188  
Noctuidae 1998
- Mesochorus politus**, distribution, Korea Democratic People's Republic 4042
- Mesochorus sylvanum**, distribution, Korea Democratic People's Republic 4042
- Mesochorus vittator**, distribution, Korea Democratic People's Republic 4042
- Mesohomotoma tessmanni**  
cocoa, Ghana 4645  
Formicidae 4645
- Mesolecanium nigrofasciatum**  
control, chemical control 8751  
peaches, Tennessee 8751
- Mesoplasma chauliocola**  
hosts, *Chauliognathus pennsylvanicus* 3004  
taxonomy, new species 3004
- Mesoplasma coleopterae**  
hosts, *Chauliognathus* 3004  
taxonomy, new species 3004
- Mesoplasma corruscae**  
hosts, *Ellychnia corrusca* 3004  
taxonomy, new species 3004
- Mesoplasma grammopterae**, hosts, insects 3004
- Mesoplasma photuris**  
hosts, *Photuris* 3004  
taxonomy, new species 3004
- Mesoplasma pleciae**  
hosts, *Plecia* 3004  
taxonomy, new species 3004
- Mesoplasma syrphidae**  
hosts, insects 3004  
taxonomy, new species 3004
- Mesoplatys cincta**  
control, *Sesbania pachycarpa*, evaluation 2221  
*Sesbania pachycarpa*, Cameroon 2221
- Mesopolobus diffinis**  
hosts, *Taxomyia taxi* 1134  
*Taxus baccata*, habitats, UK 1134
- Mesopolobus mediterraneus**  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditschiae* 5155
- Mesoponera**, pathogens 6228
- Mesostigmata**, soil, Egypt 676
- Mesovelia mulsanti**  
morphology 930  
taxonomy 930
- Mesovelia vittigera**  
prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482
- Messor**, morphology, polymorphism 11416
- Messor barbarus**  
biochemistry  
chemical composition 7028  
volatile compounds 292  
biology, behaviour 7028  
*Blanus cinereus*, interactions 292  
ecology, behaviour 1465  
grasses, Spain 1465
- Messor bouvieri**  
biology, behaviour 207  
Spain 207
- Messor capensis**  
grasses, South Africa 8678  
soil, South Africa 347
- Messor capitatus**  
biology, behaviour 207  
morphology, polymorphism 11416  
Spain 207
- Messor lobognathus**  
biochemistry, chemical composition 4973  
biology, behaviour 4973
- Messor pergandei**  
biology, behaviour 6149  
physiology, water relations 7110
- Mestocharella**, taxonomy 6978
- Mestocharella costulata**  
hosts, *Caloptilia kadsurae* 6978  
*Kadsura japonica*, habitats, Japan 6978  
taxonomy, new species 6978
- Mestocharella javensis**  
hosts, *Caloptilia theivora* 6978  
tea, habitats 6978
- Mestocharella tenuicornis**  
*Castanopsis cuspidata*, habitats, Japan 6978  
taxonomy, new species 6978
- Mesua ferrea**, extracts, effects, *Rhyzopertha dominica* 1769
- Mesulfenfos**, residues, olives, commodities 12078
- Meta japonica**  
Japan 1844  
taxonomy, new species 1844
- Meta menardii**  
biology, behaviour 3207  
Japan 3207
- Meta segmentata**  
biology 8391  
Italy 8391
- Metablastothrix**, taxonomy 10089
- Metablastothrix isomorpha**, taxonomy 10089
- Metabolus flavescens**  
control 8857  
*Ginkgo biloba*  
China 8857  
damage 8857
- Metacanthus pulchellus**  
control, chemical control 6615  
*Lagenaria siceraria*, Uttar Pradesh 6615
- Metacatharsius troglodytes**  
ecology, competition 4024  
South Africa 4024
- Metadelphax propinqua** (see *Toya propinqua*)
- Metagonistylum**, taxonomy, synonyms, *Lydeila* 4827
- Metaldehyde**, control, slugs 4133
- Metallothionein**, markers, cadmium, Gastro-poda 9332
- Metallus**, distribution, China 8078
- Metamasius callicona**  
biology, behaviour 5385  
Central America 5385  
food plants, Florida 5385  
pathogens 5385  
Tillandsia, North America 5385
- Metamasius hemipterus**  
bananas, Costa Rica 8781  
control, biological control 8781
- Metamasius hemipterus sericeus**  
crops, Florida 2239  
monitoring, traps 2239
- Metapenaeus ensis**, pesticides, effects 5320
- Metapenaeus monoceros**, insecticides, residues 11647
- Metaphycus**  
India 18  
taxonomy 18
- Metaphycus flavus**  
*Citrus*, orchards, Yugoslavia 6684  
hosts, *Coccus pseudomagnoliarum* 6684  
India 18  
taxonomy 18
- Metaphycus helvolus**  
India 18  
taxonomy 18
- Metaphycus lichtensiae**  
India 18  
taxonomy 18
- Metaphycus lounsburyi**, control, *Saissetia oleae*, olives 6709
- Metaphycus maculatus**  
India 18  
taxonomy 18
- Metaphycus zebratus**  
India 18  
taxonomy 18
- Metarhizium**, formulations 7422
- Metarhizium album**, genetics, DNA 8441
- Metarhizium anisopliae**  
alarm pheromones, effects 1393  
biochemistry  
enzymes 3277, 4178-4179, 7424  
metabolism 8416  
nutrition 10432  
biology, environmental factors 7470, 10436  
characterization 4065  
control  
*Chalcodermus bimaculatus*, cowpeas 7745  
*Costelytra zealandica*, pastures 6511  
*Cylas formicarius*, sweet potatoes 4483  
*Inopus rubriceps*, sugarcane 1611  
insect pests, evaluation 3291  
*Reticulitermes flavipes* 11503  
*Rhyacionia frustrana*, *Pinus caribaea* 1690  
culture techniques 372, 5213, 7449-7450, 11508  
enzymes, characterization 3268  
genetics  
mutants 4154  
population genetics 10440  
RNA 6222  
hosts  
Acrididae 1282, 3257  
*Adoryphorus couloni* 10436  
*Anthonomus grandis* 7448  
*Antitrogon consanguineus* 5585  
*Coptotermes formosanus* 9474, 11526  
*Costelytra zealandica* 7471  
*Diabrotica speciosa* 8332  
*Empoasca vitis* 604  
*Eurhizococcus brasiliensis* 4203  
*Forficula auricularia* 2720  
*Frankliniella occidentalis* 10445  
*Galleria mellonella* 5658, 8420  
insects 3291  
*Locusta migratoria migratorioides* 7470  
*Melanoplus sanguinipes* 4145, 4179  
*Nephotettix virescens* 4154  
*Otiorynchus sulcatus* 371, 4188  
*Popillia japonica* 3279, 6054  
*Quadricalcarifera punctatella* 9478  
Scarabaeidae 362, 10441, 11525  
*Schistocerca gregaria* 11502  
*Sciara* 6839  
Tenebrionidae 5396  
*Zygogramma bicolorata* 6045  
interactions, pesticides 1336  
morphology 7426  
nontarget effects, rats 3278  
pest control 10468  
pesticides, toxicity 2307  
physiology 3264  
production 7469  
*Serratia entomophila*, interactions 7471  
sporulation 9496  
tillage, effects 2485  
**Metarhizium anisopliae var. anisopliae**  
biology, environmental factors 4152



- Metarhizium anisopliae** var. *anisopliae* cont.  
genetics, DNA 8441  
hosts, *Odontotermes obesus* 6243
- Metarhizium anisopliae** var. *majus*, genetics, DNA 8441
- Metarhizium cylindrospora**, taxonomy, to *Nomuraea cylindrospora* 5235
- Metarhizium flavoviride**  
biology, environmental factors 5225  
control  
Acrididae 7427  
*Chortoicetes terminifera* 9527  
*Zonocerus variegatus* 280  
cassava 10791  
culture techniques 7420  
effects, *Apis mellifera* 7466  
genetics  
DNA 8441  
population genetics 10440  
hosts  
Acrididae 3257, 7328  
*Coptotermes formosanus* 9474  
*Schistocerca gregaria* 6237, 7424, 7466, 10446  
oils, effects 10446  
storage 10446
- Metarhizium flavoviride** var. *flavoviride*, biochemistry, nutrition 10432
- Metarhizium flavoviride** var. *minus*, hosts, *Odontotermes obesus* 6243
- Metaseiulus occidentalis**  
apples, orchards, Oregon 4554  
biology  
behaviour 3200, 8263  
interspecific competition 4554  
intraspecific competition 9438  
control, *Tetranychus urticae*, hops 12049  
genetics  
DNA 8203  
transformation 4099  
hops, fields, Oregon 12049  
prey, *Tetranychus urticae* 3200, 8263, 9438
- Metasequoia glyptostroboides**, *Metasequoia miris carvalhoi*, Hubei 11125
- Metasequoia miris**, taxonomy, new genus 11125
- Metasequoia miris carvalhoi**  
gymnosperms, Hubei 11125  
taxonomy, new species 11125
- Metasystox** (see *Demeton-S-methyl*)
- Metatarchardia fukienensis**  
food plants, Fujian 22  
taxonomy, new species 22
- Metatarchardia hunanensis**  
*Mallotus philippensis*, Hunan 22  
taxonomy, new species 22
- Metatarchardia sinensis**  
food plants, Yunnan 22  
taxonomy, new species 22
- Metazachlor**, extraction, water 502
- Metcalfa pruinosa**  
control, chemical control 11843, 11854  
distribution, Switzerland 9863  
food plants, Italy 11854  
fruit crops, Italy 11843.  
morphology 3796
- Meteorus**  
hosts  
*Amata passalis* 751  
*Lemyra* 700  
*Santalum album*, habitats, Karnataka 751
- Meteorus autographae**  
cotton, fields, Florida 4667  
hosts, Noctuidae 4667
- Meteorus oculatus**  
distribution, Austria 5028  
forests, Austria 5028  
hosts, *Taleporia tubulosa* 5028
- Meteorus rubens**  
attractants 11432  
hosts, *Agrotis ipsilon* 11432
- Meteorus trachynotus**  
apples, orchards, Pennsylvania 11846  
biology, development 10278  
hosts  
*Choristoneura* 10278  
*Platynota idaeusalis* 11846
- Meteorus versicolor**  
hosts, *Ocnogyna baetica* 330
- Meteorus versicolor** cont.  
Spain 330
- Metepeira crassipes**  
Mexico 5149  
predators 5149
- Methamidophos**  
control  
*Acanthiophilus helianthi*, safflower 11926  
*Amrasca devastans*, cotton 5611  
*Anthonomus grandis*, cotton 4654  
*Aspidiotus destructor*, *Actinidia* 5543  
*Bemisia tabaci*, tomatoes 8742  
*Ceroplastes ceriferus*, tea 3599  
*Chondracris rosea*, field crops 3295  
*Delia coarctata*, wheat 6438  
*Deudorix isocrates*, mandarins 7843  
*Endocrita jianglingensis*, *Boehmeria nivea* 11973  
*Helicoverpa armigera*, cotton 10924  
insect pests  
apples 8753  
pigeon peas 8697  
rice 7702  
*Ips typographus*, *Picea abies* 3660  
Lepidoptera, Brussels sprouts 4515  
*Mythimna separata*, wheat 538  
*Myzus persicae*, tobacco 5599  
*Otiorynchus*, strawberries 6663  
*Otiorynchus sulcatus*, ornamental woody plants 6812  
*Phthorimaea operculella*, potatoes 3510  
*Pityogenes chalcographus*, *Picea abies* 8918  
*Plutella xylostella*, cabbages 2525  
Pyralidae, sugarcane 3588  
*Rhopalosiphum maidis*, maize 554  
Scolytidae, *Picea* 12016  
*Trialeurodes vaporariorum*, *Gerbera jamesonii* 796  
detection, crops 9393  
effects  
beneficial organisms 2335  
man 7592  
interactions, sodium chloride 1472  
metabolism, fruit vegetables 10612  
mixtures  
control  
*Bemisia tabaci*, tomatoes 4521  
*Plutella xylostella*, cabbages 2525  
nontarget effects  
Araneae 6169  
beneficial insects 9675  
Hymenoptera 2525  
man 3709, 10601  
natural enemies 5611  
residues  
tomatoes 4528  
vegetables 9395  
commodities 3709  
detection 9395  
resistance  
*Anaphes iole* 3222  
*Chilo suppressalis* 5295  
*Cnaphalocrocis medinalis* 10730  
*Frankliniella occidentalis* 6275  
insects 602  
*Myzus persicae* 5608  
toxicity  
Eulophidae 7577  
*Maladera matrida* 8511  
Pentatomidae 1472
- Methane**, control, *Callosobruchus chinensis*, pigeon peas, commodities 8017
- Methidathion**  
control  
*Bemisia tabaci*, cotton 5612  
insect pests, apples 8753  
*Metcalfa pruinosa*, fruits 11854  
*Planococcus citri*, pumpkins 5553  
*Pseudaulacaspis pentagona*, tea 11957  
effects  
carp 452  
*Eretmocerus debachi* 445  
*Stethopachys formosa* 12039  
nontarget effects, fishes 11615  
residues  
kiwifruits 9901  
lemons 1450
- Methidathion** cont.  
residues cont.  
olives, commodities 12078  
water 11657  
resistance  
*Aonidiella* 9890  
*Aonidiella aurantii* 6680  
*Aphytis melinus* 7816  
*Bemisia tabaci* 6323, 9561  
*Neoseiulus longispinosus* 449  
toxicity, pigeons 10589
- Methiocarb**  
control  
*Deroceras reticulatum*, field crops 10807  
insect pests  
maize 4414  
sugarbeet 10907  
slugs  
lucerne 3482  
wheat 4405  
effects, *Stethopachys formosa* 12039  
formulations 11572  
nontarget effects, nontarget organisms 448  
residues  
determination 4805  
foods 9604  
*Vaccinium corymbosum* 5756  
water, monitoring 5361  
resistance, *Frankliniella occidentalis* 6275, 6322  
toxicity, *Deroceras reticulatum* 11723
- Methionine**, effects, *Bactrocera cucurbitae* 7029
- Methomyl**  
aerosols, sampling 4270  
control  
*Aonidia lauri*, *Laurus nobilis* 10005  
arthropod pests, strawberries 11868  
*Chrysodeixis includens*, soyabeans 7731  
insect pests  
cowpeas 9771  
tomatoes 7789  
*Metcalfa pruinosa* 11854  
Noctuidae  
cotton 11969  
soyabeans 11765  
*Spodoptera frugiperda*, maize 549  
*Spodoptera littoralis*, lucerne 5458  
degradation, glass 9404  
effects  
aquatic organisms 10586  
*Chrysoperla carnea* 456  
predatory insects 9771  
quails 2288  
soil, microorganisms 2363  
*Trichogramma pretiosum* 1337  
mixtures  
control  
insect pests, cowpeas 9771  
Noctuidae, cotton 11969  
nontarget effects, predatory insects 1633  
residues  
commodities 10577  
water, monitoring 5361  
resistance  
*Aphis gossypii* 10551-10552  
*Frankliniella occidentalis* 6275  
*Ganaspidium utilis* 9612  
*Helicoverpa armigera* 10542, 10546  
*Heliothis virescens* 9584  
Lepidoptera 6339  
*Myzus persicae* 5608  
*Neoseiulus longispinosus* 449  
*Plutella xylostella* 10558  
*Spodoptera exigua* 4260, 6327, 11582  
synergism 7731  
toxicity  
*Aphis gossypii* 2401  
*Apis mellifera* 3361  
*Chrysoperla rufilabris* 4318  
Eulophidae 7577  
*Heliothis virescens* 9404  
*Hippodamia convergens* 8798  
*Ostrinia nubilalis* 9579  
*Plutella xylostella* 11577  
*Rhagoletis pomonella* 9569  
*Steinernema carpocapsae* 7583  
*Stethorus punctum* 10581



**Methomyl** *cont.*  
toxicity *cont.*  
*Theba pisana* 435

**Methoprene**  
control, stored products pests 8016  
effects  
*Achaea janata* 5373  
*Bombyx mori* 1937, 8561, 11680  
insects 9146  
*Locusta migratoria* 408, 3875  
*Paratrechina fulva* 10559  
*Spilarcia obliqua* 11604  
*Spodoptera littoralis* 7624  
residues  
analysis 4796  
maize, commodities 4796  
wheat, commodities, analysis 5750

**Methoxsalen**  
effects  
*Depressaria pastinacella* 7051  
*Papilio polyxenes* 9158

**6-Methoxy-2-benzoxazolinone**  
attractants, *Diabrotica* 9705  
mixtures, effects, *Diabrotica* 9705

**Methoxychlor**  
metabolism, rats 5333  
residues  
fishes 7579  
honey 8572  
water 492  
toxicity, *Coryca cephalonica* 10545

**1-(8-Methoxy-4,8-dimethylonyl)-4-(1-methylethyl)benzene**, control, stored products pests 8016

**8-Methoxypsoralen**, effects, *Spodoptera frugiperda* 8126

**Methyl anthranilate**, pheromones, *Aenictus* 3827

**Methyl bromide**  
control  
*Aleurocanthus woglumi*, fruits 10046  
*Anthonomus grandis*, cotton, commodities 10047  
arthropod pests  
cut flowers 10048  
*Solanum* 2528  
*Carydon serratus*, groundnuts 6870  
Coleoptera, wood 10051  
insect pests  
agricultural products 5752  
commodities 2778  
*Leptinotarsa decemlineata*, commodities 10050  
Rhinotermitidae, wood 12065  
stored products pests 395, 5744  
effects, mammals 1364  
fumigation, cotton 704  
legislation 8488, 10510-10511  
mixtures, toxicity, Isoptera 9588  
permeability, polyethylene 8482  
residues  
atmosphere, analysis 8584  
blood, determination 9398  
buckwheat, commodities 844  
commodities, determination 9398  
crops, commodities 2322  
foods, determination 3148  
fruits, commodities 3710  
grain legumes, commodities 5752  
spices, commodities 5752  
toxicity  
dogs 1365  
*Frankliniella occidentalis* 438  
Isoptera 9588  
*Liposcelis entomophilus* 4798  
man 1365  
usage 8596  
reviews 5282

**(2E,4Z)-2,4-Methyl decadienate**, pheromones, *Pityogenes chalcographus* 8924

**Methyl-demeton** (see Demeton-methyl)

**Methyl-demeton-S** (see Demeton-S-methyl)

**Methyl eugenol**  
analogues, attractants, *Bactrocera dorsalis* 4365  
attractants  
*Bactrocera dorsalis* 2236, 4365  
insects 6396  
control, *Bactrocera* 6598

**Methyl eugenol** *cont.*  
mixtures, attractants, *Bactrocera cucurbitae* 3308

**4-Methyl-3,5-heptanedione**, pheromones, *Sitona lineatus* 4473

**(E)-Methyl-8-hexadecenal**, pheromones, *Trogoderma* 6290

**(Z)-Methyl-8-hexadecenal**, pheromones, *Trogoderma* 6290

**Methyl jasmonate**, effects, *Phyllotreta cruciferae* 8802

**Methyl nictinate**, pheromones, *Aenictus* 3827

**(3S,4S)-3-Methyl-octan-4-ol**, pheromones, *Rhynchophorus phoenicis* 4376

**(4S,5S)-5-Methyl-octan-4-ol**, pheromones, *Rhynchophorus cruentatus* 4376

**Methyl parathion** (see Parathion-methyl)

**Methyl salicylate**, effects, *Aphis fabae* 7735

**Methyl salicylate**, repellents, Aphididae 5400

**1-Methylamino-1-[N-methyl-N-(3-pyridyl)amino-2-nitroethane**, toxicity, *Nilaparvata lugens* 3340

**1-Methylamino-1-[N-methyl-N-(3-pyridylmethyl)amino-2-nitroethane**, toxicity, *Nilaparvata lugens* 3340

**3-Methylbutanal-O-methyloxime**, attractants, *Phytoseiulus persimilis* 4355

**2-Methylbutanal-O-methyloxime**, attractants, *Phytoseiulus persimilis* 4355

**N-(2'S)-Methylbutanoyl 2-methylbutylamine**, pheromones, *Migdolus fryanus* 4358

**Methylbutenol**, pheromones, *Ips typographus* 8924

**1-Methylbutyl decanoate**, pheromones, *Oiketicus kirbyi* 7058

**(R)-1-Methylbutyl decanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**(S)-1-Methylbutyl decanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**1-Methylbutyl dodecanoate**, pheromones, *Oiketicus kirbyi* 7058

**(R)-1-Methylbutyl dodecanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**(S)-1-Methylbutyl dodecanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**1-Methylbutyl nonanoate**, pheromones, *Oiketicus kirbyi* 7058

**(R)-1-Methylbutyl nonanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**(S)-1-Methylbutyl nonanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**1-Methylbutyl octanoate**, pheromones, *Oiketicus kirbyi* 7058

**(R)-1-Methylbutyl octanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**(S)-1-Methylbutyl octanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**N-3-Methylbutylacetamide**, pheromones, *Vespula* 10172

**(5S,7S)-(-)-7-Methyl-1,6-dioxaspiro[4,5]decane**, pheromones, *Conophthorus resinosae* 9982

**11,12-Methylenehexadec-11-enoic acid**, effects, *Bombyx mori* 9574

**1-Methylethyl (2E,4E)-2,4-dimethyl-2,4-heptadienoate**, mixtures, attractants, *Prostephanus truncatus* 8349

**(E)-1-Methylethyl 2-methyl-2-pentenoate**, mixtures, attractants, *Prostephanus truncatus* 8349

**7-Methylheptadecane**  
mixtures, attractants, *Lambdina fiscellaria* 1890  
pheromones  
*Lambdina ferdidaria* 4379  
*Lambdina fiscellaria* 1890

**(E)-6-Methyl-2-hepten-4-ol**, pheromones, *Rhynchophorus palmarum* 682

**6-Methyl-5-hepten-2-one**  
semiochemicals, *Alloxysta victrix* 1403  
effects, *Lasius niger* 7204

**(8Z,14R)-14-Methyl-8-hexadecenal**  
pheromones, *Trogoderma granarium* 1396  
synthesis 1396

**Methyl-4-hydroxybenzoate**, effects, *Pterostichus cupreus* 4057

**2-Methyl-5-hydroxy-1,4-naphthoquinone**, effects, insect pests 4792

**2-(Methyl-2-(methylsulfinyl)propanal O-((methylamino)carbonyl)oxime**, degradation, soil 11676

**3-Methyl-4-octanol**, pheromones, *Rhynchophorus phoenicis* 7627, 9916

**(3R,4R)-3-Methyl-4-octanol**, pheromones, *Rhynchophorus phoenicis* 9916

**(3S,4S)-3-Methyl-4-octanol**, pheromones, *Rhynchophorus phoenicis* 9916

**5-Methyl-4-octanol**, attractants, *Rhynchophorus cruentatus* 4362

**14-Methylpentadecyl isobutyrate**, pheromones, *Euproctis pseudoconspersa* 3832

**1-Methylpentyl decanoate**, pheromones, *Oiketicus kirbyi* 7058

**(R)-1-Methylpentyl decanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**(S)-1-Methylpentyl decanoate**, mixtures, attractants, *Oiketicus kirbyi* 7058

**2-[1-Methyl-2(4-phenoxy phenoxy)ethoxy]pyridine**, effects, *Hodotermopsis japonica* 1233

**Methyl 2,6,10-trimethyltridecanoate**  
pheromones, *Euschistus* 8602  
synthesis 8602

**Metiram**, nontarget effects, predatory mites 9839

**Metisa plana**  
oil palms, Malaysia 6708  
pathogens 6708

**Metolachlor**, nontarget effects, maize 10632

**Metolcarb**  
resistance  
*Nephotettix cincticeps* 7539  
*Nilaparvata lugens* 4436  
*Sogatella furcifera* 4437

**Metopia**, taxonomy 11130

**Metopia argentea**, distribution, UK 11130

**Metopia grandii**, distribution, UK 11130

**Metopolophium dirhodum**  
Argentina 6016  
biochemistry, enzymes 3813  
biology 2412, 6016  
behaviour 5404, 6436  
cereals  
Germany 1423  
Poland 3091  
UK 5400  
control 2412  
chemical control 545, 1423, 11718  
ecology, population dynamics 555, 3091, 4404, 6437, 7260, 8631, 10689  
farming systems, effects 1428  
Germany 7260  
hydroxamic acids, effects 5404  
Idaho 10451  
insecticides, toxicity 540  
maize, Czech Republic 555  
monitoring, traps 7260  
morphology 2412, 6016  
natural enemies 10703  
oats, Poland 10703  
parasitoids 4404, 6437  
pathogens 6437  
plant extracts  
antifeedants 6436  
repellents 5400  
plant pathogens, transmission 1423, 10451  
predators 543, 1428, 6437, 7657-7658, 7662  
wheat 540, 5404, 7662  
Beijing 10689  
Germany 1428, 7657, 8631, 11722  
Irish Republic 11718  
Italy 2412  
resistance 3813, 4404, 6436  
Syria 6437  
UK 543  
yield losses 545

**Metopolophium festucae**  
cereals, Chile 9668  
distribution, Chile 9668  
wheat, Italy 2412

**Metoposipyrops**, taxonomy, synonyms, *Lydella* 4827

**Metribuzin**, insecticides, interactions 6902



***Metrioria elatior***

biology, life cycle 4782  
distribution, Uruguay 8002  
morphology 8002  
*Solanum elaeagnifolium*, Uruguay 4782, 8002

***Metrioptera bicolor***

biology, environmental factors 10748  
habitats, Sweden 10748

***Metrioptera brachyptera***

alpine grasslands, Austria 9739  
ecology, habitats 9739

***Metroxylon sagu*, *Rhynchophorus ferrugineus***, Papua New Guinea 8882**Mevinphos**

control, *Plutella xylostella*, cabbages 2525, 10803  
effects, man 8531  
mixtures, control, *Plutella xylostella*, cabbages 2525  
nontarget effects  
Hymenoptera 2525  
mammals 10579  
resistance, *Tetranychus urticae* 2724, 4579  
toxicity, *Anastrepha fraterculus* 8457

**Mexacarbate**

detection 11398  
toxicity, Apidae 9600

**Mexico**

*Abies*, *Danaus plexippus* 5679  
*Abies religiosa*, *Mindarus remaudierei* 10975  
*Acacia*, *Acmaeodera* 36  
*Aciurina mixteca* 10092  
*Acmaeodera* 9055  
*Agonum* 32  
*Antheraea polyphemus* 1805  
*Apeltastes chiapasensis* 2854  
aquatic environment, insecticide residues 8595  
aquatic organisms, insecticide residues 8595  
*Araneae* 8299  
predators 5149  
*Arbutus xalapensis*, *Eucheira socialis* 794  
*Asopinae* 1847  
*Baccharis*  
insects 5721  
*Stobaera pallida* 827  
bananas, *Bemisia tabaci* 8779  
Bombacaceae, *Caio richardsoni* 1854  
*Bromelia hemisphaerica*, arthropods 811  
*Capsicum*, *Bemisia tabaci* 10830  
carnations, insect pests 1708  
cassava, *Erinyis ello* 10790  
*Ceratitis capitata* 5374  
cereals, Scarabaeidae 11711  
Chrysomelidae 11357  
*Citrus*, *Eutetranychus banksi* 3336  
coffee  
*Hypothenemus hampei* 2619, 9939  
pest control 3605  
Coleoptera 6032  
*Cosmopolites sordidus* 2223  
cotton, *Anthonomus grandis* 9958  
Cryptostigmata 1846  
cycads, pollinators 1638  
detritus, *Friezea* 3759  
*Diatraea grandiosella* 11275  
*Ectopsocus* 1850  
*Erigonum fasciculatum*, *Hemileuca electra* 8677  
*Erythroneura variabilis*, parasitoids 7342  
*Eurema dairi* 1851  
food plants, insect pests 7932  
forests, Carabidae 5084  
Geometridae 7269  
grasses, Cicadellidae, parasitoids 4036  
*Heliothis australis* 4863  
*Hemileuca* 1129  
*Jacquinia*, *Carvalhoisca* 11104  
lagoons, sediment, pesticide residues 4296  
*Larus occidentalis*, insecticide residues 11648  
Lepidoptera 4050  
*Lydella jalisco* 4827  
*Magnolia schiedeana*, *Cyclocephala jalapensis* 4714

**Mexico cont.**

maize  
*Agrotis ipsilon* 550  
commodities, stored products pests 4800  
*Diatraea grandiosella* 3444  
fields, *Megaselia scalaris* 3440  
*Macroductylus* 11730  
*Macroductylus murinus* 3440  
Noctuidae 2436  
*Prostephanus truncatus* 7932  
Pyralidae 9704  
man, insecticide residues 11633  
mangoes, *Anastrepha* 2583  
Margarodidae 10311  
melons, Aphididae 3532  
*Metamasius callizona*, natural enemies 5385  
*Nephila clavipes* 957  
Noctuidae 10466  
*Opuntia pelifera*, Coreidae 11010  
*Orthaltica* 11089  
peaches, *Eriophyes insidiosus* 7826  
*Perilissus anatinus* 4840  
*Perilissus nudus* 4840  
*Phoradendron*, Curculionidae 4853  
*Pithecellobium ebano*, Bruchidae 6768  
*Plutella xylostella* 447  
Poaceae, *Dalbulus* 10746  
*Pogonomyrmex barbatus* 3060  
*Quercus*, Lepidoptera 8849  
*Ribes pringlei*, *Euphranta mexicana* 17  
tomatoes, insect pests 7783  
*Tripsacum dactyloides*, *Dalbulus quinque-notatus* 11761  
weeds, *Bemisia tabaci* 8779  
*Wigandia urens*, insects 4769  
wild plants 6840  
*Zea*, *Diatraea grandiosella* 7683  
*Zygogramma* 1750-1751  
**Mianserin**, effects, *Spodoptera litura* 7033  
**Mice**  
entomogenous fungi, effects 8433  
insecticides  
effects 2337, 3375, 4249, 4320, 5307, 7580, 7595, 10572, 10584, 11608, 11631  
toxicity 450, 2329, 3338  
pesticides, effects 496, 3363  
prey, *Tenebrio molitor* 7373  
*Micoletzky vidalae*, hosts, *Diabrotica speciosa* 7479  
*Miconia centrodema*, *Pheidole*, interactions 5137  
*Miconia nervosa*, *Pheidole*, interactions 5137  
**Micranisa yashiroi**  
biology, behaviour 6694  
*Ficus microcarpa*, Sao Paulo 6694  
**Micrapate xyloperthoides**  
canes and rattans, UK 3115  
distribution, UK 3115  
**Micraspis discolor**  
biology, environmental factors 7727  
crops, habitats, Bihar 7727  
prey, *Aphis craccivora* 7727  
**Micraspis lineata**  
prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482  
**Microbial pesticides** (see also individual types of microbial pesticides)  
application 7484  
biotechnology 10461  
books 2818  
control  
forest pests 7901  
insect pests 9484  
tea 2615  
formulations 7458  
genetic engineering 2211  
reviews 9531  
insects, resistance 2211  
legislation, Sweden 11543  
pest control, reviews 10468  
reviews 5277  
**Microceropsylla nigra**  
ecology, population dynamics 7853  
mangoes, Ryukyu Archipelago 7853  
**Microcerotermes**, South Asia 11460  
**Microcerotermes championi**  
pathogens 3685

***Microcerotermes championi* cont.**

*Saccharum munja*, Pakistan 3685  
**Microcerotermes parvulus**, distribution, Saudi Arabia 2035  
**Microcharops anticarsiae**  
biology, behaviour 2127  
hosts, *Anticarsia gemmatilis* 2127  
**Microctonus aethiopoides**  
distribution, New Zealand 6525  
hosts  
Curculionidae 1462, 6525  
*Hypera postica* 4460  
lucerne  
fields  
Minnesota 4460  
New Zealand 6525  
pastures, New Zealand 1462  
taxonomy 1462  
**Microctonus alpinus**  
shrubs, New Zealand 906  
taxonomy, new species 906  
**Microctonus falcatus**  
*Nothofagus*, forests, New Zealand 906  
taxonomy, new species 906  
**Microctonus hyperodae**  
biology 6021  
control, *Listronotus bonariensis* 6512  
hosts  
Curculionidae 1462  
*Listronotus bonariensis* 333, 6021, 7364  
New Zealand 6270  
pastures, New Zealand 1462, 6512  
taxonomy 1462  
**Microctonus pachylobii**  
biology 8912  
hosts, *Hylobius radialis* 8912  
**Microctonus zealandicus**  
hosts  
Curculionidae 1462  
*Irenimus aequalis* 906  
lucerne, fields, New Zealand 906  
pastures, New Zealand 1462  
taxonomy 1462  
new species 906  
**Microcystis aeruginosa**, insecticides, effects 2317  
**Microdontidae**, distribution, France 6098  
**Microdontomerus**, hosts, *Barioscapus cordiae* 2731  
**Microdontomerus annulata**, taxonomy, from *Diplolepis* 9049  
**Microgaster**, taxonomy 1843  
**Microgramma squamulosa**  
Gelechiidae  
galls 5687  
Sao Paulo 5687  
**Microhilum oncoperae**, biochemistry, nutrition 10432  
**Microlepidoptera**, microscopy 7303  
**Microlophium carnosum**, parasitoids 205  
**Micrommata**  
*Eucalyptus*, habitats, Italy 5639  
prey, *Phoracantha semipunctata* 5639  
**Micromus posticus**, pecans, habitats, USA 2122  
**Micromus sauteri**  
prey, *Ceratovacuna lanigera* 2606  
sugarcane, fields, Taiwan 2606  
**Micromus variegatus**, Slovakia 11363  
**Microorganisms**  
growth regulators, degradation 5310  
Isoptera, interactions 4924  
pesticides, degradation, reviews 4233  
Tingidae, secretions, effects 11192  
**Micropholis cyrtobotria**, *Coptotermes*, Amazonia 5628  
**Microplitis**  
hosts  
*Rhopobota naevana* 9855  
*Spodoptera depravata* 10008  
lawns and turf, habitats, Tianjin 10008  
*Vaccinium*, fields, British Columbia 9855  
**Microplitis croceipes** (see *Glabromicroplitis croceipes*)  
**Microplitis demolitor**, hosts, *Chrysodeixis includens* 6232  
**Microplitis quadridentatus**  
*Bromus inermis*, habitats, Indiana 2475  
distribution, Indiana 2475  
hosts, *Simyra henrici* 2475



***Microrhopala vittata***  
biology, behaviour 4781  
ecology, population dynamics 4781  
*Solidago*, Ontario 4781

***Microselia southwoodi***  
France 3206  
hosts, *Camponotus vagus* 3206

**Microspora**  
control, chemical control 3253  
hosts  
    *Biston suppressaria* 10419  
    *Delia* 7767  
    *Galleria mellonella* 4187  
    *Yponomeuta padellus* 6748

***Microsporidium sitophili***, hosts, *Oryzaephilus mercator* 2770

***Microstigmus similis***  
parasitoids 10  
prey, Thysanoptera 10  
structural timbers, Brazil 10  
taxonomy, new species 10

***Microstigmus xylicola***  
parasitoids 10  
prey, Thysanoptera 10  
structural timbers, Brazil 10  
taxonomy, new species 10

***Microtermes***, South Asia 11460

***Microtermes obesi***  
maize  
    Andhra Pradesh 7678  
    damage 7678

***Microterys***  
hosts, *Gossyparia spuria* 2671  
*Ulmus*, habitats, California 2671

***Microterys flavus***, *Citrus*, orchards, Yugoslavia 6684

***Microtonus hyperodae***  
control, *Listronotus bonariensis*, pastures 2217  
rearing techniques 2217

***Microtypus***  
hosts, Lepidoptera 11108  
taxonomy 11108

***Microvelia douglasi***  
prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482

***Microvelia douglasi atrolineata***  
prey, *Sogatella furcifera* 8664  
rice, fields, Philippines 8664

***Mictis profana***  
*Acacia iteaphylla*, South Australia 9301  
biochemistry, enzymes 7040  
biology, behaviour 9301  
ecology, population dynamics 10024  
*Mimosa pigra*, Australia 10024

**Middle East**  
*Aleyrodidae* 11708  
*Bemisia tabaci* 4209  
crops, insect pests 5386  
*Pachycerus cordiger* 2745  
*Papilio saharae* 3748

***Migdolus fryanus***, pheromones 4358

**Migration**  
*Bemisia tabaci* 9306  
Carabidae 1075  
*Cnaphalocrocis medinalis* 7699  
*Danaus plexippus* 7224  
Delphacidae 7697  
*Halyomorpha mista* 6039  
*Helicoverpa zea* 1096  
insects 1097, 9297  
    genetics 9296  
    reviews 6063  
*Lissorhoptrus oryzophilus* 6496  
*Nilaparvata lugens* 7228  
    reviews 3068  
*Phorodon humuli* 6657  
Pyralidae 7160  
*Schlechtendalia chinensis* 10396  
*Sogatella furcifera* 7228

***Milax rusticus***  
leafy vegetables 5198  
physiology, respiration 5198  
plant extracts, effects 10401

**Milbemectin**  
control, arthropod pests, aubergines 9814  
physicochemical properties 8493  
toxicity, Acari 8493

**Milesiinae**, distribution, France 6098

**Milk**  
insecticides, residues 442, 2345, 6862-6863, 8517, 11628, 11653  
pesticides, residues 467, 7555, 8516

**Milk products**, insecticides, residues 6862, 8517, 11628

**Millets**  
*Atherigona biseta*, resistance 6479  
*Atherigona soccata*  
    Bangladesh 5434  
    resistance 5434  
commodities, insecticides, residues 6882  
*Coniesta ignefusalis*  
    damage 6478  
    Niger 6478  
    Nigeria 8657  
fields  
    Carabidae, Honshu 7349  
    parasitoids, Niger 2442  
insect pests  
    Mali 8658  
    Niger 2442  
    pest control 858  
    West Africa 9032  
pesticides, residues 578

***Milletia laurentii***  
extracts  
    insecticidal properties 806  
    molluscicidal properties 806

***Mimastra cyanura***  
biology, life history 7175  
control, chemical control 7175  
Sichuan 7175

**Mimetidae**  
Mexico 5149  
predators 5149

**Mimic** (see Tebufenozide)

***Mimosa detinens***, *Dorcacerus barbatus*, Argentina 4689

***Mimosa invisa***  
control, biological control 1752  
natural enemies, Papua New Guinea 1752

***Mimosa pigra***  
*Apion aculeatum* 12061-12062  
*Mictis profana*, Australia 10024

***Mimosa pudica***  
extracts  
    insecticidal properties 8958  
    toxicity, *Tribolium castaneum* 8958

***Mimosa scabrella***, insect pests, Brazil 3629

***Mindarus***  
biology 10975  
North America 10975

***Mindarus abietinus***, distribution, Nearctic Region 10975

***Mindarus kinseyi***  
*Abies concolor*, California 10975  
taxonomy, new species 10975

***Mindarus remaudierei***  
*Abies religiosa*, Mexico 10975  
taxonomy, new species 10975

***Mindarus victoria***, distribution, USA 10975

**Mined land**, Collembola, Western Australia 3082

**Mineral oils**  
control  
    *Aonidia lauri*, *Laurus nobilis* 10005  
    *Aonidiella aurantii*, oranges 7842  
    *Aonidiella citrina*, *Citrus* 11899  
    Aphididae  
        marrows 1527  
        tomatoes 10824  
    arthropod pests  
        *Citrus* 11900  
        fruits 8751  
    *Bemisia tabaci*, tomatoes 628  
    *Brevipalpus*, mandarins 2578  
    *Cacopsylla pyri* 8765  
    insect pests, *Cucurbita pepo* 11835  
    *Metcalfa pruinosa* 11854  
    *Panonychus ulmi*, apples 4548  
    Phylloxeristis citrella, *Citrus* 1565  
    *Pseudaulacaspis pentagona*, fruits 11844  
    *Quadraspidiotus perniciosus*, ornamental woody plants 12030  
    *Tetranychus*, *Prunus salicina* 6655  
effects  
    *Bemisia argentifolii* 6606  
    assays 11655

**Mineral oils cont.**  
effects cont.  
    *Metarhizium flavoviride* 10446  
    nuclear polyhedrosis viruses 7433  
mixtures, control, *Bemisia tabaci*, tomatoes 4521  
nontarget effects  
    Carabidae 11851  
    chrysanthemums 10992  
    kiwifruits 4600  
    *Prunus salicina* 6655  
toxicity  
    *Bemisia tabaci* 11574  
    *Cosmopolites sordidus* 7487  
    *Cydia pomonella* 9836  
    *Heliothis virescens* 4268  
    ornamental woody plants 12030  
    *Pseudaulacaspis pentagona* 1584

**Mink**, organochlorine compounds, residues 1342

***Minois dryas***  
ecology, *Polyommatus* 254  
Switzerland 254

***Minthostachis mollis***, oils, effects, *Tribolium castaneum* 410

***Mirabilis nyctaginea***, *Heliodines*, Illinois 10991

***Miramella alpina***  
alpine grasslands, Austria 9739  
ecology, habitats 9739

**Mirex**  
control, *Cornitermes cumulans*, *Brachiarra decumbens* 1463  
effects  
    birds 8550  
    *Chelydra serpentina* 9598  
nontarget effects  
    *Larus argentatus* 4306  
    *Mergus serrator* 8537  
repellents, *Heterotermes indicola* 11698  
residues  
    analysis 471  
    aquatic organisms 471  
    fishes 457

**Miridae**  
attractants 6396  
biology, dispersal 3928  
cotton, Africa 10068  
crops  
    Sweden 1300  
    USA 4393  
distribution  
    China 11381  
    Colorado 2044  
ecology  
    arthropod communities 4035  
    insect communities 12054  
Hawaii 6396  
morphology 8105  
*Phlox*, USA 12054  
predators 4393, 11115  
Russia 8105  
taxonomy 7788, 11105, 11447  
    new species 4045

***Mirperus jaculus***  
control, integrated control 8704  
cowpeas, Chad 8704

***Miscanthus sinensis***, *Melanaphis yasumatsui*, Japan 7998

***Mischocyttarus***, morphology, venom glands 3783

**Mistletoes**, Formicidae, Colombia 2087

***Misumena vatia***  
biology, behaviour 7189  
Maine 4115  
parasitoids 4115

***Misumenops***  
ecology, population dynamics 1417  
prey, *Atherigona soccata* 1417  
sorghum, fields, Burkina Faso 1417

**Mites** (see also Acari)  
crops, Japan 5813  
ecology, population dynamics 9006  
feeds, stores, Manitoba 9006  
fungicides, effects 8774  
grapes 9872  
predators 5813  
Turkey, reviews 2082  
*Vigna* 2824

**Mitochondria**, pesticides, effects 4235

**Miturgidae**, checklists, Uruguay 8321



**Mixed forests, Coleoptera, Anhui 10290****MK-0244**

- control, *Cydia pomonella*, apples 11849
- toxicity, *Cydia pomonella* 11849

***Mnesampela privata***

- Eucalyptus*, resistance 6752
- Eucalyptus globulus*  
resistance 5641
- Victoria 5641

**Models**

- Acantholyda erythrocephala*, development 4730
- Acrididae
  - integrated control, Western States of USA 11753
  - population dynamics 10359
- Acrobasis nuxvorella*, environmental factors 11916
- Acyrtosiphon kondoi*, morphology 3485
- Anagrus delicatus*, behaviour 4092
- Anisopteromalus calandrae*, functional responses 6186
- Aphididae
  - behaviour 5037
  - population dynamics 5078
  - reproduction 951, 4898
- Aphidoidea, plant pathogens, transmission 6264
- aquatic organisms, organic compounds, toxicity 2304
- arthropods
  - diapause 10241
  - distribution, soil 10253
  - environmental factors 9397
- Bacillus thuringiensis*, sprays, evaporation 387
- Bactrocera cucurbitae*, forecasting 1528
- Baculoviridae 6250
- biological control, economics 1275
- Braconidae, behaviour 2104
- buildings, pest control 5262
- Callosobruchus chinensis*, environmental factors 11451
- Callosobruchus maculatus*, reproduction 3057
- Campylomma verbasici*, development 4062
- Carabus arcensis*
  - behaviour 216
  - population dynamics 243
- carbaryl, distribution, *Dendroctonus* 9586
- Cephalcia arvensis*, development 4736
- Chionaspis*, communities 1220
- Choristoneura fumiferana*, population dynamics 1682
- Cnaphalocrocis medinalis*, rice, damage 2446
- coffee, pest control 9937
- Contarinia sorghicola*, dispersal 1448
- Delphacidae, population dynamics 7648
- Drosophila*
  - behaviour 7211
  - interspecific competition 245
  - ontogeny 7011
- Drosophila buzzatii*, reproduction 7173
- Drosophila melanogaster*, genetics, transposable elements 1952
- Dysaphis plantaginea*, apples, damage 8762
- ectoparasites, communities 1220
- Elasmopalpus lignosellus*, population dynamics 686
- Eldana saccharina*, population dynamics 2609
- Episyrphus balteatus*, population dynamics 7662
- fishes, neurotropic drugs, uptake 2303
- forecasting
  - Acalymma vittatum* 4540
  - Ostrinia nubilalis* 10710
- Formicidae, behaviour 1106
- greenhouse crops, integrated pest management 1524
- Heterospilus prosopidis*, environmental factors 11451
- host parasite relationships 1229, 3210, 8327
- Hylesinus varius*, population dynamics 4626
- Hymenoptera
  - behaviour 3048

**Models cont.**

- Hymenoptera cont.
  - genetics 1948
  - reproduction 73
- insect pests
  - pathogens 8860
  - population dynamics 2076, 5113
- insecticides
  - absorption 10509
  - degradation, soil 485
  - residues
    - groundwater 6387
    - man, conferences 2813
  - resistance, *Leptinotarsa decemlineata* 10547
  - safety 4304
  - toxicity, man 2319
  - uptake, adjuvants 9552
- insects
  - behaviour 5055
  - ecology 9108
  - population dynamics 242, 244, 2056
  - rearing techniques 1175
  - reproduction, reviews 3058
- Lepidoptera
  - population dynamics 1135-1136, 8294
  - reproduction 9133
- Locusta migratoria*, behaviour 3985
- Lymantria dispar*
  - development 5845
  - dispersal 403
  - environmental factors 9382
  - forest trees, damage 1641
  - nuclear polyhedrosis viruses, dispersal 10942
  - population dynamics 1174, 2018, 9970, 10252
- maize, commodities, damage 1773
- man, insecticides, toxicity 2320
- marine environment, insecticides, movement 9632
- mathematical models, insecticides, uptake 10565
- Megoura viciae*
  - circadian rhythm 3946
  - photoperiodism 9337
- Melitaea cinxia*, population dynamics 4027
- Microctonus hyperodae*, phenology 7364
- Monomorium pharaonis*, behaviour 7208
- Mythimna separata*, haemolymph 5895
- Nilaparvata lugens*, population dynamics 241
- Occidryas editha*
  - behaviour 8264
  - ecology 1172
- organochlorine compounds, effects, fishes 3353
- Orthosia hibisci*, environmental factors 7164
- Ostrinia nubilalis*
  - diapause 4060
  - population dynamics 3086, 11359
- outbreaks, *Tetranychus cinnabarinus*, Henan 10918
- Panonychus ulmi*, heat sums 6112
- parasitoids
  - behaviour 9303
  - communities 1220
  - competition 2114
  - interspecific competition 3012
  - population dynamics 388, 1217, 2112, 11354
- Pardosa hortensis*, behaviour 8371
- pastures, *Halotydeus destructor* 11758
- Pectinophora gossypiella*, population dynamics 9345
- pest control 3151
- climatic change 7481
- pest resistance 400
- pesticides
  - environmental impact 506
  - mixtures 10500
  - interactions 8459
  - mode of action 8458
  - movement 3155
  - water 4063
- residues, groundwater, leaching 3405
- sprays, droplet studies 3156
- usage 4243
- Netherlands 10475

**Models cont.**

- plant viruses, transmission 5598
- Plutella xylostella*, population dynamics 9802
- Pogonomyrmex barbatus*, population ecology 2090
- Pogonomyrmex occidentalis*, behaviour 5056
- pollutants, effects 1387
- polychlorinated biphenyls, toxicity 265
- predator prey relationships 1206, 5178
- evolution 4026
- predators, selection 9280
- Prokelisia marginata*, population dynamics 247
- Rhopalosiphum padi*, reproduction 7319
- Rhyacionia frustrana*, *Pinus taeda*, damage 4733
- rice
  - arthropod pests, yield losses 7714
  - Cnaphalocrocis medinalis*, damage 2455
  - insect pests, population dynamics 7713
- sampling, Lepidoptera, cabbages 10800
- Schistocerca gregaria*, population dynamics 5710
- Senecio jacobaea*, natural enemies, interspecific competition 11014
- simulation models
  - Aphididae, phenology 5109
  - Archips rosanus*, ecology, population dynamics 9828
  - beneficial insects, insecticides, resistance 9577
  - Ceratitis capitata*, reproduction 2075
  - Collembola, population dynamics 6088
  - Cydia funebrana*, population dynamics 10858
  - Dendroctonus rufipennis*  
damage 8897
  - Picea* 2707
  - forecasting 6108
  - host parasite relationships 4059
  - insect pests, broadleaves, damage 1651
  - insects, parasitoids, interactions 2592
  - Leptinotarsa decemlineata*, insecticide resistance 4269
  - pest control, decision making 9405
  - pest resistance 6450
  - Phytoseiulus persimilis*, fecundity 3136
  - plant viruses, transmission 3285
  - Solenopsis invicta*  
behaviour 2072
  - population dynamics 4028, 6113
- Sitobion avenae*
  - forecasting 7655
  - population dynamics 7320
- social insects, behaviour 6041, 7217, 11331
- Spodoptera frugiperda*, development 4428
- sprayers, pesticides 3166
- sterile insect release 1296
- stored products pests 837
- temperate fruits, pest control 639
- Tetranychus lintearius*, development 6847
- Tipula*, population dynamics 535
- Tribolium castaneum*, population dynamics 9343, 11358
- Trichogramma*, behaviour 4118
- Yponomeuta padellus*, behaviour 1997
- Zapionius indianus*, population dynamics 8281
- Modicogryllus confirmatus*, physiology, reproduction 4962
- Modified atmosphere storage**, control, stored products pests 8018
- Moina macropa*, insecticides, toxicity 8521
- Molasses**
  - effects, *Chilo partellus* 2185
  - extracts, effects, *Helicoverpa armigera* 8501
- Moldova**
  - Amara* 10240
  - Carabidae 1075
  - crops, arthropod pests 533
  - Curculionidea 10313



**Moldova cont.**

- Drosophila melanogaster* 6000
- grain legumes, Aphididae 10769
- habitats, *Drosophila melanogaster* 11276
- insects 9417
- herbicides, effects 6202
- integrated pest management 6915

**Molecular genetics**

- Acyrtosiphon pisum*, DNA 8230
- Aleyrodidae 5003
- Amphorophora idaei*, DNA 7827
- Aphididae, genomes 5994
- Aphidius ervi*, genes 9237
- Aphidoletes aphidimyza*, DNA 10137
- Araneae, silk, proteins 11247
- arthropods
  - books 12088
  - DNA 5987
  - evolution 5008
  - mitochondrial DNA 5989
  - nucleotide sequences 5988
  - transposable elements, reviews 7129
- Autographa californica*, nuclear polyhedrosis viruses, genes 5005, 5241
- Bacillus*, gene transfer 3280
- Bacillus popilliae*, plasmids 5219
- Bacillus thuringiensis*
  - chromosomes 5240
  - DNA 11485
  - gene expression 8407
  - gene transfer 3255, 6119
  - genes 1268, 4665, 9521
  - toxins 357, 9713, 11777
  - genetic engineering, proteins 8437
  - nucleotide sequences 6251
  - proteins 5240
  - reviews 5210
  - toxins 4481
  - gene expression 7387
- Bacillus thuringiensis* subsp. *galleriae*, genes, toxins 5243
- Bacillus thuringiensis* subsp. *morrisoni*, transposable elements 7386
- Bacillus thuringiensis* subsp. *thompsoni*, genes, crystal proteins 7385
- Bactrocera dorsalis*, genes 1934
- Baculoviridae
  - gene expression 6250, 7128, 10221
  - genes 5212, 9476
  - genetic engineering 2054, 9033, 10071
- Baculovirus*, gene transfer 5991
- Bemisia tabaci*
  - biotypes 5003
  - gene frequency 175
- Bombyx*, retrotransposons 4989
- Bombyx mori* 1047, 11264
  - chromosomes 1936, 7135
  - complementary DNA 8222, 10221
  - DNA 1048, 7372
  - gene expression 1937, 3882, 8218
  - proteins 5190
  - genes 194, 2972, 4130, 5195, 8398, 10394
  - proteins 11269
  - regulation 7377
  - sequences 161
  - silk glands 9240
  - messenger RNA 1944
  - RNA 2974
  - proteins 9231
- books 10076
- Bradysia coprophila*, DNA 9230
- Buchnera aphidicola*, DNA 8347
- Carabus*, genes, ubiquitin 7361
- Ceratitis capitata*
  - chromosomes 1947, 3883
  - DNA 1049
  - genetic markers 169
  - mitochondrial DNA 8204
  - mutations 8464
  - proteins 8234
- Chrysomela scripta*, genes, diversity 10223
- Cylas formicarius*, chromosomes 4988
- cytoplasmic polyhedrosis viruses
  - gene expression 1935
  - genes 4156
- Delia*, meiosis 8229
- Dichoplus pratensis*, chromosomes 2976

**Molecular genetics cont.**

- Dolichovespula maculata*, genes, venoms 8408
- Drosophila* 1042, 7139-7140, 7142, 11242, 11266, 11268, 11356
  - amino acids 167
  - DNA 5990
  - evolution, reviews 8224
  - gene expression 4992, 5979-5982
  - genes 1930, 2979-2980, 2986, 3886, 7138, 7141, 7144, 8209, 8212, 9248
  - wings, development 7145
  - insecticide resistance 2968
  - inversion polymorphism 1941
  - karyotypes 10228
  - nervous system 7143
  - transposable elements 1037
- Drosophila ananassae*, genes 8216
- Drosophila athabasca* 11281
- Drosophila buzzatii*
  - alleles 2998
  - retrotransposons 9232
- Drosophila melanogaster* 1931, 1940, 7137, 8206, 8208, 8213, 8232, 9243-9244, 9246, 9249-9251, 10229
  - circadian rhythm 11267
  - development 3887
  - DNA 10227
  - evolution 166
  - flight 1035
  - gene expression 8200, 8228
  - genes 2981, 5978, 8207, 8210-8211, 9234, 11273-11274
  - genomes 5965
  - insecticide resistance 1943, 8505
  - mutations 8214, 9247
- Drosophila obscura* group, DNA 1041
- Drosophila simulans*
  - genetic polymorphism 2975
  - reproduction 1036
- Drosophila subobscura*
  - chromosomes 2977
  - polymorphism 8223
- Drosophila suzukii*, genes 11232
- Drosophila virilis*, genes 1022
- Drosophilidae, nucleotides 168
- Entomopoxvirinae
  - genes 11483
  - reviews 9464
- Ephestia kuehniella*, satellite DNA 5004
- Eyprepocnemis plorans*
  - chromosomes 2983
  - DNA 7134
  - heterochromatin 8233
- Formicidae, genes 5143
- Galleria mellonella*
  - complementary DNA 8221
  - genes 2982
  - RNA 8231, 11272
- genes 1022
- Gryllotalpa africana*, chromosomes 170
- Heliothis virescens*
  - genes, enzymes 4914
  - mitochondrial DNA 5992
- Hemitaxonus*, DNA 4991
- Heterorhabditis bacteriophora* 377
- Hyalophora cecropia*, genes 7132
- Hymenoptera, DNA amplification 9381
- Hypothenemus hampei*, genes, insecticide resistance 258
- insects
  - actin 8199
  - books 6911
  - chromosomes 5117
  - DNA 4981
  - extraction 11235
  - mitochondrial DNA 5975, 11270
  - nucleotide sequences 160, 5986, 6224
  - ribosomal RNA 10220
  - techniques 5976
  - transposable elements 8198
- iridescent viruses, genes 8438
- Leptinotarsa decemlineata*, genes, nucleotide sequences 9235
- Lymantria dispar*
  - DNA 8217
  - genes 165
  - RNA 8205
- Malacosoma disstria*, genes 9207
- Manduca sexta* 5977

**Molecular genetics cont.**

- Manduca sexta* cont.
  - complementary DNA 8202
  - enzymes 11258
  - gene expression 8510, 11248
  - genes 1946, 5995, 10224, 11260
- Megoura viciae*
  - chromosomes 2984
  - DNA 11259
- Melanoplus*, ribosomal DNA 5985
- Metarhizium*, DNA 8441
- Metarhizium anisopliae*, RNA 6222
- Metaseiulus occidentalis*, DNA 8203
- Mononychellus progresivus*, DNA 4497
- Myrmecia pilosula*, chromosomes 4085
- Myzus persicae*
  - genes 11263
  - insecticide resistance 9238
- Nephrotoma ferruginea*, chromosomes 10222
- Nosema*, DNA probes 9460
- Nosema bombycis*, chromosomes 5207
- nuclear polyhedrosis viruses 6253
  - DNA 11482
  - recombination 8439
  - DNA replication 11487
  - gene expression 5227, 8423
  - toxins 7457
  - genes 1253, 4150, 9485
  - transcription 11480
  - genetic engineering 5224, 5242
  - mutations 9486
  - nucleotide sequences 4167, 5214, 8426, 8430
  - plasmids 6252
- Oryctes rhinoceros*, chromosomes 10443
- Papilio machaon*, DNA 3888
- Papilio polyxenes*
  - genes 1945, 11249
  - messenger RNA 9158
- Photinus pyralis*, gene transfer 1942
- Phytoseiidae, transformation 4099
- Pissodes strobi* group, mitochondrial DNA 11282
- Plutella xylostella*
  - DNA 11592
  - insecticide resistance 6248
- Polydnaviridae 5215
  - gene expression 171
- Prodoxidae, mitochondrial DNA 5984
- Pyrrhalla luteola*, genes, diversity 10225
- Samia cynthia*, messenger RNA 9242
- Schizaphis graminum*
  - DNA 5997
  - DNA fingerprinting 539
  - pest resistance 10723
- Serratia entomophila*
  - mutations 2167
  - strains, identification 9462
- Sigmavirus*, genes, sequences 11486
- Sitobion avenae*
  - clonal variation 7672
  - DNA fingerprinting 5105
- Solenopsis*, DNA 8340
- Spodoptera frugiperda*
  - cell lines, gene transfer 2985
  - DNA 162
  - genetic variation 1046
- Tenebrio molitor*, genes, proteins 11271
- Tetranychus urticae*, mitochondrial DNA 8201
- Tetraviridae, genes 10411
- tomato spotted wilt tospovirus, RNA 11516
- Tribolium castaneum*
  - DNA 9239
  - genes 8215, 9245
  - insecticide resistance 4255
- Trichogramma*
  - DNA 7362
  - restriction fragment length polymorphism 11433
- Trichoplusia ni*, complementary DNA 8219
- Trilophidia annulata*, chromosomes 9233
- Yponomeuta*, mitochondrial DNA 9089
- Zaprionus indianus*, genes 2973
- Zootermopsis*, mitochondrial DNA 9241

**Mollusca**

- biology, behaviour 5451
- hermaphroditism, reviews 4901



**Mollusca cont.**

- insecticides, effects 90, 2296
- Lathyrus vernus*
  - damage 8950-8951
  - Sweden 8950-8951
- pasture plants
  - damage 5451
  - UK 5451
- plant extracts, effects 3247

**Molluscicidal properties**

- Agave americana*, extracts 801
- Ambrosia maritima*, extracts 7980
- Balanites aegyptiaca*, extracts 801
- Guaiacum officinale*, extracts 1721
- Milletia laurentii*, extracts 806
- Phytolacca dodecandra*, extracts 802

**Molluscicides**

- effects, *Deroceras reticulatum* 11600
- nontarget effects, domestic animals 3384

**Molobratia**, taxonomy 1839**Molobratia teutonius**, taxonomy 1839**Molothrus ater**, pesticides, consumption 11645**Molybdenum**, effects, Gastropoda 965**Momordica charantia**

- Bactrocera cucurbitae* 11837
  - Pakistan 6620
- Bactrocera tau* 2540
- extracts, effects, *Aphis craccivora* 807
- habitats, *Gryon pennsylvanicus*, Japan 7800
- insecticidal properties 807
- Leptoglossus australis*, Japan 7800
- Megynemum brevicorne*, Malaysia 3531

**Mompha divisella**

- Epilobium hirsutum*
  - galls 6027
  - UK 6027

**Monacis**, taxonomy, synonyms, of

- Dolichoderus* 37

**Monacis bispinosa** (see *Dolichoderus bispinosus*)**Monacrostichus citricola**, taxonomy, revisions 6967**Monacrostichus malaysiae**

- kumquats, Malaysia 6967
- taxonomy, new species 6967

**Monarda fistulosa**, extracts, effects, Coleoptera 10053**Monellia caryella**

- biology, behaviour 4610
- Carya*, Israel 5398
- control, biological control 4609
- parasitoids 5398
- pecans
  - Georgia 4609
  - Israel 5566
  - resistance 4610
- predators 5566

**Monellia costalis** (see *M. caryella*)**Monelliopsis pecanis**

- biology, behaviour 4610
- control, biological control 4609
- pecans 8798
  - Georgia 4609
  - resistance 4610
- predators 8798

**Monellia costalis** (see *M. caryella*)**Monelliopsis pecanis**

- biology, behaviour 4610
- control, biological control 4609
- pecans 8798
  - Georgia 4609
  - resistance 4610
- predators 8798

**Monellia costalis** (see *M. caryella*)**Monelliopsis pecanis**

- biology, behaviour 4610
- control, biological control 4609
- pecans 8798
  - Georgia 4609
  - resistance 4610
- predators 8798

**Mongolia**

- Hippophae rhamnoides*, *Macropsis* 5793
- Orthopteroidea 5098

**Moniezia**, hosts, Acari 11752**Monochamus alternatus**

- biology 765
  - reproduction 5248
- control
  - biological control 2694, 7952
  - chemical control 2381
- ecology 4732
- pathogens 5248
- Pinus* 765
  - Honshu 2694
- Pinus densiflora*, Japan 4732, 5668
- Pinus thunbergii*, Honshu 7952
- plant pathogens, transmission 2381

**Monochamus galloprovincialis**

- Bursaphelenchus mucronatus*, interactions 5674
- Pinus pinaster*, Italy 5674

**Monochamus saltuarius**

- biology 7955
- diapause 8902

**Monochamus saltuarius cont.**

- biology cont.
  - reproduction 7165
- Bursaphelenchus mucronatus*, interactions 7955
- Pinus* 7955
- Pinus densiflora*, Japan 8902
- plant pathogens, transmission 7955

**Monochamus sutor**

- Pinus sylvestris* 1686
- plant pathogens, transmission 1686

**Monochamus titillator**

- control, wet storage 8014
- Pinus taeda*, wood 8014

**Monochroa**

- biology, life cycle 8303
- UK 8303

**Monocotyledons**, Cicadellidae, Czech Republic 7255**Monocrotaline**, effects, Lepidoptera 431**Monocrotophos****control**

- Abacarus sacchari*, sugarcane 5584
- Aleurocanthus woglumi*, mandarins 5557, 11894
- Aleurolobus barodensis*, sugarcane 1613
- Amrasca biguttula*, aubergines 7795
- Amrasca devastans*, cotton 5611
- Anthonomus grandis*, cotton 4654
- Antigastra catalaunalis*, sesame 7874
- arthropod pests, jute 5619
- Atherigona soccata*, sorghum 3446
- Chilo partellus*, sorghum 6475
- Chilo tumidicostalis*, sugarcane 11952
- Contarinia*, *Jasminum sambac* 3665
- Cylas formicarius*, sweet potatoes 4483
- Diaphorina citri*, oranges 8783
- Dudua aprobola*, *Litchi chinensis* 5559
- Empoasca kraemeri*, cowpeas 1485
- Eoreuma loftini*, sugarcane 6719
- Eurytoma plotnikovi*, *Pistacia chinensis* 10006
- Helicoverpa armigera*
  - cowpeas 9767
  - pigeon peas 7743
- Helopeltis antonii*, cashews 5569
- Hemiptera, okras 5516
- insect pests
  - aubergines 9815
  - cotton 1631, 7896
  - Eucalyptus camaldulensis* 2662
  - fruit vegetables 11822
  - peas 1480
  - pigeon peas 593, 8697
  - rice 7702
  - soyabeans 1473, 11784
  - Vigna radiata* 11786
  - yams 4483
- Lagenaria siceraria* 6615
- Lauririoza alacris* 6809
- Laurus nobilis* 6809
- Lepidoptera, sapodillas 5563
- Leucinodes orbonalis*, aubergines 10827
- Lincus lobuliger*, coconuts 8806
- Lipaphis erysimi*
  - Indian mustard 5497, 5698
  - rape 5572
- Macrochirus praetor*, *Daemonorops hystrix* 2737
- Mythimna separata*
  - rice 2467
  - wheat 538, 5408
- Nilaparvata lugens*, rice 3459
- Opisina arenosella*, coconuts 5576
- Pentatomidae, rice 1460
- Phthorimaea operculella*, potatoes 3503, 3510
- Phyllonorycter*, *Myrica* 657
- Pieris brassicae*, cauliflowers 618
- Planococcus lilacinus*, *Jasminum auriculatum* 3666
- Pleseobyrsa bicincta*, oil palms 5573
- Pseudococcidae, *Amorphophallus* 4483
- Ptilineurus marmoratus*, *Boehmeria tricuspidis* 718
- Pyrilidae, sugarcane 3588

**Monocrotophos cont.****control cont.**

- Rhopalosiphum maidis*, maize 554
  - Sciothrips cardamomi*, cardamoms 7989
  - Scirtothrips dorsalis*
    - Capsicum annuum* 9818
    - pomegranates 11907
  - Sitotroga cerealella*, rice 6490
  - Spodoptera exigua*, maize 5414
  - Thripidae, nectarines 9849
  - Thrips tabaci*, onions 2520
  - Tingidae, oil palms 4623
  - Uroleucon carthami*, safflower 3580
  - Zabrus tenebrioides*, sugarbeet 1619
- degradation
- Capsicum* 6614
  - cyanobacteria 2309
- effects
- Anabaena torulosa* 3349
  - Bemisia tabaci* 5297
  - Caliothrips indicus* 11941
  - Chauliops fallax* 8500
  - Coleoptera 1310
  - Dysdercus cingulatus* 5303
  - Nilaparvata lugens* 1310
  - rats 4301
  - sorghum 2438
  - Trichogramma pretiosum* 1337
- mixtures
- control
- Aleurocanthus woglumi*, mandarins 5557
  - insect pests, rice 9722
  - Orseolia oryzae*, rice 5440
  - Sitotroga cerealella* 6490
  - Spodoptera exigua*, maize 5414
  - effects, cotton 8839
  - nontarget effects
    - Platyaster oryzae* 5440
    - predatory arthropods 9722
- nontarget effects
- natural enemies 5611
  - parasitoids 5428
  - predatory arthropods 9947
  - predatory insects 5414
  - Zootecus insularis* 5197
- phytotoxicity
- chickpeas 7312
  - determination 7312
- residues
- aubergines 5506
  - cauliflowers 618
  - groundwater 10652
  - Lablab purpureus* 9773
  - okras 5512, 8749
  - pigeon peas 593
  - potatoes 597
  - rivers 10652
  - tomatoes, commodities 4523
  - Vigna radiata* 10779
- resistance
- Aphis gossypii* 10914
  - Bemisia tabaci* 5616, 11587
  - Eumeta variegata* 10541
  - Helicoverpa armigera* 1327, 10546
  - Myzus persicae* 5608
- toxicity
- Aphis gossypii* 6625
  - Apis mellifera* 474
  - Cheilomenes sexmaculata* 11611
  - Cnaphalocrocis medinalis* 11586
  - rats 2310
  - sorghum 2437, 2439
  - Spodoptera litura* 9908
  - with cottonseed oil, control, arthropod pests, cotton 8838
- Monoctonia pistaciaecola**, morphology 6174
- Monoctonia vesicarii**
- hosts, *Pemphigus vesicarius* 6174
  - morphology 6174
  - taxonomy, new species 6174
- Monoctonus nervosus**
- biology, behaviour 7343, 7351, 9436
  - hosts
    - Acyrtosiphon pisum* 7343, 9436
    - Aphididae 7351
- Monoctonus paulensis** (see *M. nervosus*)
- Monodontomerus aeneus**, hosts, *Osmia tricornis* 5148
- Monodontomerus obsoletus** (see *M. aeneus*)



- Monodora tenuifolia***, extracts, effects, *Sitophilus zeamais* 3676
- Monolepta***, mangoes, West Bengal 5558
- Monolepta australis***  
control, chemical control 2650  
crops, Northern Territory 2650
- Monomorium***, *Iridomyrmex sanguineus*, interspecific competition 2085
- Monomorium floricola***, *Coptotermes formosanus*, interactions 6205
- Monomorium indicum***  
biology, behaviour 7892  
cotton, habitats, India 7892
- Monomorium pharaonis***  
biology  
behaviour 6154  
models 7208  
control, chemical control 288, 4084  
Florida 288, 4084  
glands 1856
- Mononychellus progresivus***  
biology, environmental factors 9788  
cassava  
Africa 4497, 9788  
Congo 6565, 8714  
South America 4497  
yields 8714  
genetics, DNA 4497  
predators 6565
- Mononychellus tanajoa*** 2513  
biology, reproduction 11702  
Brazil 2507  
cassava 2512  
Africa 2505, 2511  
biological control, conferences 2811  
Colombia 5479  
damage 2509-2510  
Kenya 2506, 2510  
sampling 2508  
Zambia 6567  
control  
biological control 2505-2513  
conferences 2811  
food plants 11702  
pathogens 5479  
predators 323, 610, 2506-2507, 2513
- Monopilota pergratialis***, distribution, Belize 4834
- Monosaccharides***, attractants, *Exorista bombycis* 6272
- Monosteira unicostata***, distribution, Israel 2026
- Monoteria edeia***, *Ziziphus jujuba*, Madhya Pradesh 4582
- Monoteria zizyphora*** (see *M. edeia*)
- Monoterpenoids***  
toxicity  
insect pests 6320  
*Tribolium castaneum* 6314
- Monterey pine*** (see *Pinus radiata*)
- Montina confusa***  
biology, development 3808  
*Eucalyptus*, forests, Brazil 1661  
hosts, *Diatraea saccharalis* 3808  
prey, Lepidoptera 1661
- Moorlands***, habitats, Carabidae, UK 5074
- Morabinae***  
Australia 5163  
ectoparasites 5163
- Moranila***, taxonomy 9091
- Moranilini***, taxonomy 9091
- Mordellidae***  
Nicaragua 10317  
Texas 11371
- Mordellistena***, Cardueae, Germany 8986
- Mordellistena parvuloides***, Cardueae, Germany 8986
- Morimus funereus***  
biology, environmental factors 11187  
diets 11187
- Morinda citrifolia***  
*Drosophila* 1724  
*Drosophila sechellia* 5693  
extracts, toxicity, *Drosophila* 5693
- Moringa indica***, *Euphorbia molifera* 5704
- Moringa oleifera***  
insect pests  
damage 2542  
Tamil Nadu 2542
- Mormidea***, morphology, nymphs 3786
- Mormoniella vitripennis*** (see *Nasonia vitripennis*)
- Morocco**  
*Atholus* 8063  
*Ceratitidis capitata* 6010  
*Drosophila simulans* 1922  
*Euscerica* 6970  
faba beans, *Bruchus rufimanus* 3498  
olives, *Phloeotribus scarabaeoides* 2595  
potatoes, Aphididae 10787  
wheat, *Mayetiola destructor* 5403
- Morone chrysops***, pesticides, residues 6363
- Morone saxatilis***  
insecticides, residues 8551  
pesticides, effects 1378
- Moronobea pulchra***, *Coptotermes*, Amazonia 5628
- Morrenia odorata***, *Toxotrypana curvicauda*, Florida 2588
- Mortierella isabellina***, *Onychiurus armatus* 3956
- Morus**  
*Bombyx mori* 9400  
*Fleutiaxia chinensis*, China 6949  
*Maconellicoccus hirsutus*, Indonesia 2567
- Morus alba*** (see Mulberries)
- Morus nigra*** (see Mulberries)
- Morus rubra***, *Hypogastrura simsi*, Maryland 7910
- Mosses**  
arthropods 10630  
Switzerland 10580  
Colombia, Austria 3073
- Motacilla alba***, insecticides, residues 5323
- Motacilla flava***, insecticides, effects 7564
- Moths** (see Heterocera)
- Moulting hormones**  
*Antheraea mylitta* 7050  
arthropods 5932  
biosynthesis, reviews 8600  
*Bombyx mori* 11221  
*Choristoneura fumiferana* 11684  
*Drosophila melanogaster* 9209, 11223-11224, 11273-11274  
effects, *Spodoptera frugiperda* 5227  
*Galleria mellonella* 11272  
reviews 2938  
*Gryllus bimaculatus* 8167, 11216, 11219  
insects 4963, 11683  
*Junonia coenia* 11222  
Lepidoptera 10149  
*Locusta migratoria* 1908, 4350  
*Lymantria dispar* 11524  
*Malacosoma disstria* 9207  
*Manduca sexta* 139, 9206, 11220  
*Opisina arenosella* 7087  
*Pteridium aquilinum*, extracts 5371  
*Riptortus clavatus* 7034  
silkworms 2149  
*Spodoptera littoralis* 8165, 9202  
synthesis 11218  
*Tenebrio molitor* 11271  
*Tribolium castaneum* 8121
- Mouralia tinctoides***  
biology, development 705  
food plants 705
- MTMC** (see Metolcarb)
- Mucuna deeringiana***, habitats, *Euschistus heros*, Parana 5395
- Muellerianella brevipennis***, biology 1079
- Mugho pine*** (see *Pinus mugo*)
- Mulberries** (*Morus alba* and *M. nigra*)  
*Apriona germarii*, China 10865  
*Bombyx mori* 344, 656, 3244, 11871  
*Ceratitidis capitata*, Greece 4386  
*Fleutiaxia armata*, China 6949  
habitats, *Allothrombium pulvinum*, Iran 9352  
*Hyphantria cunea*, Italy 11703  
insect pests  
China 10871  
control, cultural control 10871  
Uttar Pradesh 9662  
*Oberea artocarpis*  
damage 9880  
Kerala 9880  
*Psacothia hilaris*, Japan 10870  
*Pseudaulacaspis pentagona*, Maryland 7836  
silkworms, Shandong 3239  
Thripidae, West Bengal 9860
- Mulches**  
control  
Aphididae, marrows 1527  
*Aulacophora indica*, melons 1582
- Mulching**, effects, Aphididae 2622
- Mung bean yellow mosaic bigeminivirus**, vectors, *Bemisia tabaci* 2498, 5468, 5470, 11789
- Mung beans** (see *Vigna radiata*)
- Murraya paniculata***  
*Amblypelta lutescens lutescens*, Queensland 790  
*Diaphorina citri*, Fujian 9886  
habitats, beneficial insects, Queensland 790
- Musa***, *Pentalonia nigronervosa*, Tonga 7489
- Musa paradisiaca*** (see Bananas)
- Musca domestica***  
chrysanthemums, pollination 8935  
evolution 11138  
fishes, commodities 8993  
plant extracts, effects 10345  
predators 1181, 1205, 3991
- Muscidae**  
alpine plants  
Norway 5705  
pollination 5705  
attractants 6396  
biology, environmental factors 5705  
Hawaii 6396  
*Leontopodium alpinum*, pollination 8934  
Sao Paulo 8116
- Museums**, *Tineola bisselliella*, Germany 1762
- Mushrooms** (*Agaricus bisporus*)  
Diptera  
damage 3680  
India 3680  
Pennsylvania 813  
insecticides  
residues 3682  
determination 3682  
*Lycoriella*, Germany 6838  
*Megaselia halterata* 7993  
*Sciara* 6839
- Musk melons** (see Melons)
- Mussaenda frondosa***, *Lonchodes harmani*, Brunei Darussalam 2847
- Mussels**, pesticides, residues 4300, 11609
- Mussidia nigrivenella***  
biology, behaviour 8619  
ecology, population dynamics 8619  
food plants  
damage 8619  
Togo 8619
- Mustard***, *Thrips fallaciosus* 919
- Mustela lutreola***, pesticides, residues 3368
- Myanmar**  
*Aphelinus maidis* 9098  
Lepidoptera 24
- Myceliophthora thermophila***, insecticides, effects 10594
- Mycetophila fungorum* group**, taxonomy 2840
- Mycetophilidae**  
ecology 8923  
evolution 928  
*Nothofagus pumilio*, Chile 5660  
*Picea*, forests, Norway 8923
- Mycetophiloidae***, Guizhou 6096
- Mycobates***  
North America 5798  
taxonomy 5798
- Mycodiplosis***  
morphology 7671  
wheat, Shaanxi 7671
- Mycroherbicides***, insecticides, interactions 6378
- Mycomya***  
China 4835  
taxonomy 4835
- Mycomya occulta***, China 4835
- Mycoplasma-like organisms***  
vectors  
*Circulifer haematoceps* 10902  
*Dalbulus maidis* 8641  
*Euscelidius variegatus* 5252  
*Euscelis incisus* 10811  
*Hyalosthes obsoletus* 3547  
*Myndus crudus* 6516  
*Scaphoideus titanus* 10868



- Mycorrhizas**  
*Dioryctria albiovittella*, interactions 7939  
 insecticides, effects 5355-5356
- Myelobia atroparsellus**, sugarcane, Venezuela 7876
- Myelois cribrumella**, Cardueae, Germany 8986
- Myiopharus aberrans**  
 biology, behaviour 7753  
 hosts, *Leptinotarsa decemlineata* 7753  
 potatoes, fields, Massachusetts 7753
- Myiopharus doryphorae**  
 biology, behaviour 7753  
 hosts  
*Leptinotarsa decemlineata* 7753  
*Leptinotarsa juncta* 3059  
 potatoes, fields, Massachusetts 7753
- Mylabris**, taxonomy 9080
- Mylabris balteata**, food plants 3010
- Mylabris cichorii**, taxonomy 9080
- Mylabris indica** (see *Mylabris balteata*)
- Mylabris lunata**, biochemistry, metabolism 9170
- Mylabris pustulata**  
 pigeon peas, India 8698  
 ecology, population dynamics 8698
- Myloscopus pegasus**  
 Madagascar 42  
 predators 42  
 taxonomy, new species 42
- Myloscopus quagga**  
 Madagascar 42  
 predators 42  
 taxonomy, new species 42
- Mylocherinus aurolineatus**  
 control, integrated control 9933  
 tea, Fujian 9933
- Mylocerus**  
 mangoes, West Bengal 5558  
*Pennisetum americanum*, resistance 7693
- Mylocherus undecimpustulatus**  
*Aegle marmelos*, Uttar Pradesh 9662  
 mulberries, Uttar Pradesh 9662  
*Syzygium cumini*, Uttar Pradesh 9662
- Mymaridae**  
 fields, habitats, Quebec 4110  
 hosts  
*Carneiocephala floridana* 4777  
 Delphacidae 7697  
*Lygus lineolaris* 4110  
 wild plants, habitats, Florida 4777
- Myndus crudus**  
 biology, behaviour 6516  
 plant pathogens, transmission 6516  
*Stenotaphrum secundatum*, Florida 6516
- Myo-inositol**  
 effects, Noctuidae 5925  
 phagostimulants, Noctuidae 5926
- Myopa**, taxonomy 3755
- Myopa buccata**  
 distribution, Japan 7995  
 hosts, *Andrena prostomias* 7995  
 taxonomy 3755, 10091
- Myopites longirostris**  
 distribution, UK 7273  
*Inula crithmoides*  
 galls 7273  
 UK 7273
- Myoplatypus flavicornis**  
 control, wet storage 8014  
*Pinus taeda*, wood 8014
- Myosomatoides myersi**  
 hosts, *Diatraea* 11131  
 taxonomy, new name for, *Ipobracon pennipes* 11131
- Myosomatoides pennipes**, hosts, *Diatraea* 11131
- Myoviridae**, hosts, *Bombyx mori* 3281
- Myrcene**  
 effects, *Hyllobius pales* 2258  
 mixtures, attractants, *Dendroctonus brevicornis* 7936
- Myrciaria cauliflora**, Tephritidae, Goias 7840
- Myrciaria dubia**, Hemiptera, Peru 6671
- Myriapoda**, insecticides, effects 2343
- Myriaca**  
*Phyllonorycter*  
 damage 657  
 Zhejiang 657
- Myriophyllum sibiricum**, Curculionidae, Alberta 8004
- Myristica fragrans**, insect pests, Kerala 1734
- Myrmarachne platyleoides**  
 morphology, mouthparts 2137  
 Sri Lanka 2137
- Myrmecia gulosa**, biochemistry, secretions 7066
- Myrmecia pilosula**  
 Australia 4085  
 genetics, chromosomes 4085
- Myrmecocystus**, physiology, water relations 3184
- Myrmecolacidae**, taxonomy 26, 1829
- Myrmecolax**, taxonomy 26
- Myrmeleon bore**, biology, behaviour 6060
- Myrmeleon carolinus**  
 biology, behaviour 3062  
 prey, *Camponotus abdominalis floridanus* 3062
- Myrmeleon formicarius**, biology, behaviour 6060
- Myrmeleotettix palpalis**  
 ecology, insect communities 8298  
 steppes, Nei Menggu 8298
- Myrmica**  
 biology, behaviour 283-284  
 soil, interactions 9415
- Myrmica hirsuta**  
 biology 4081  
 distribution, Denmark 4081
- Myrmica lobicornis**, biology, reproduction 1868
- Myrmica rubra**  
 Finland 8188  
 genetics, gene flow 8188
- Myrmica ruginodis**  
 biology, reproduction 1868  
 Coccinellidae, interactions 8256  
 Finland 8188  
 genetics, gene flow 8188  
 UK 8256
- Myrmica sabuleti**  
 antifeedants 1914  
 biology, behaviour 5058  
 Denmark 4081  
 prey, *Galerucinae* 1914
- Myrmicaria**  
 cotton, fields, Kenya 1626  
 ecology, distribution 6050  
 fields, Kenya 6050, 6427  
 prey, *Helicoverpa armigera* 1626, 6050, 6427
- (-)-(1R,5S)-Myrtenal**, effects, *Aphis fabae* 7735
- Mysidae**, insecticides, toxicity 6373
- Mysomatoides**, taxonomy, new genus 11131
- Mythimna**  
 ecology, population dynamics 5442  
 Malaysia 10113  
 rice, West Bengal 5442  
 taxonomy, new species 10113
- Mythimna compta**, ecology, population dynamics 5442
- Mythimna loreyi**  
 biological control agents, evaluation 2173  
 ecology, population dynamics 5442  
 parasitoids 315  
 physiology, endocrine system 11215  
 rice, West Bengal 5442
- Mythimna separata**  
 biochemistry  
 amino acids 7035  
 chemical composition 6189  
 endocrine system 3850  
 haemolymph 5895, 10175  
 biology, development 8626  
 cell lines, pathogens 4191  
 cereals 8626  
 control  
 chemical control 538, 2467, 5408  
 integrated control 10476  
 ecology 3095  
 growth regulators, effects 1213  
 Henan 2201  
 insecticides, effects 7538  
 maize 9696  
 Pakistan 553, 1437  
 varietal susceptibility 553  
 parasitoids 171, 307, 1213, 6189, 7035, 7098, 9696, 10151
- Mythimna separata** cont.  
 pathogens 391, 2201, 5208, 5224, 9487, 11521  
 physiology  
 carbohydrates 9487  
 reproduction 11207  
 predators 256  
 rice, Madhya Pradesh 2467  
 Shandong 10476  
 wheat  
 China 256  
 Gujarat 5408  
 Madhya Pradesh 538  
 Nei Menggu 3095  
 Shanghai 6442  
 yield losses 6442
- Mythimna sequax**, pathogens 7451
- Mythimna unipuncta**  
 control, chemical control 4420  
 maize  
 damage 4420  
 Ohio 4420  
 Virginia 3437  
 pathogens 4148, 4155, 9498  
 pheromones 7634  
 physiology, endocrine system 995  
 predators 3437
- Mythimna venaliba**  
 ecology, population dynamics 5442  
 rice, West Bengal 5442
- Mythimna vitellina**, distribution, Germany 10305
- Mythymna separata**, pathogens 171
- Mytilaspis flava**  
 ecology, population dynamics 2598  
 olives, Algeria 2598
- Mytilus**, insecticides, residues 10621
- Mytilus edulis**  
 insecticides, effects 8548  
 organochlorine compounds, determination 2383  
 pesticides, extraction 5317
- Mytilus galloprovincialis**, pesticides, residues 4300
- Myxomycota**, Coleoptera, North America 11294
- Myzocallis bodenheimeri** (see *Hoplocallis pictus*)
- Myzocallis coryli**  
 biology 11917  
 control, chemical control 11917  
 hazelnuts  
 America 9907  
 damage 11917  
 Europe 9907  
 North America 4612  
 Poland 11917
- Myzocallis kuricola** (see *Chromaphis kuricola*)
- Myzus**  
 Michigan 8372  
 predators 8372
- Myzus antirrhini**  
 morphology 5065  
 environmental factors 5065
- Myzus ascalonicus**  
 Idaho 7760  
 parasitoids 8367
- Myzus cerasi**  
 Michigan 8372  
 predators 8372  
 rearing techniques 5108  
 Veronica 5108
- Myzus lythri**  
 aquatic weeds, Idaho 11015  
 monitoring, traps 11015
- Myzus malsuctus** (see *Ovatus malsuctus*)
- Myzus mumeola**  
 biology, environmental factors 6075  
 Hokkaido 6075
- Myzus neomexicanus**, synonyms, of *Aphis oenotherae* 6840
- Myzus nicotianae**  
 biochemistry, enzymes 6321  
 control, chemical control 8826-8827  
 ecology, population dynamics 8826  
 genetics, insecticide resistance 3341  
 insecticides, resistance 3341, 4647, 4976, 6321  
 plant pathogens, transmission 7760



**Myzus nicotianae** cont.

- tobacco
- Greece 8826
- North Carolina 4647
- Rio Grande do Sul 8827

**Myzus persicae**

- Aphidius rhopalosiph*, interactions 4407
- bacteria, symbiosis 3271
- biochemistry
  - proteins 3271
  - secretions 143
- biological control agents, evaluation
  - 3291, 6269
- biology 1548
  - behaviour 7773, 7981, 9804
  - environmental factors 3999, 10273
  - life cycle 7751
  - phenology 2608
  - models 5109
- reproduction 2892, 5477, 7774, 10143

**Brassica**, Delhi 1811

- Brassicaceae, Zhejiang 3516
- broccoli, California 6587, 9804
- cabbages
  - China 617
  - Yugoslavia 1507
- Capsicum annuum* 4518
- celery
  - California 10808
  - Italy 3521

**China** 10273

- Chinese cabbages 7773
  - Korea Republic 7769
- control 8450, 10049
  - biological control 11817
  - chemical control 1548, 2610, 3587, 4618, 5599, 6596, 6604, 7769, 9850, 10824
  - cultural control 6587
  - physical control 7781, 10836
- cotton, New South Wales 5608
- cowpeas 10777
- Cucurbitaceae, Taiwan 10837
- cut flowers 10049
- diets 3271
- ecology
  - distribution 617, 10808, 11811
  - phenology 7758
  - population dynamics 1507, 3516, 4383, 4495, 7759, 9850
- food plants 788, 5477, 7774, 9519
- Idaho 4175
- Venezuela 4383

**genetics**

- genes 11263
  - insecticide resistance 9238
  - insecticide resistance 3341
- grain legumes, Europe 10769
- greenhouse crops 7781
  - California 8450
- growth regulators, effects 4349
- Hyoscyamus muticus*, Himachal Pradesh 8955
- Idaho 10451
- insecticides
  - resistance 3140, 3341, 4976, 5608, 7543, 7552, 7769, 8498, 9238, 11263, 11575
  - toxicity 7541, 7551, 10343

**lettuces**

- Arizona 6596
- Germany 11817
- resistance 9808
- lupins, Western Australia 3140
- marrows, Italy 10836
- melons, Mexico 3532
- monitoring, traps 4495, 5109, 5463, 9804, 10808
- morphology 5065
  - environmental factors 5065
  - wings 10273
- morphs, identification 7311
- natural enemies 8828
- nitrogen, effects 4518
- oils, effects 7531
- Papaver somniferum*
  - Madhya Pradesh 8828, 8956
  - resistance 8956
- parasitoids 2886, 5384, 6587, 7333, 7759, 8366, 9446

**Myzus persicae** cont.

- pathogens 3291, 4175
- peaches
  - Italy 1548
  - resistance 653, 7825
  - Uttar Pradesh 2892
- Phaseolus vulgaris*, Venezuela 5463
- pheromones 11143
- physiology, antennae 8154
- plant extracts, effects 514, 5269, 7981, 8154, 8487, 11564
- plant oils, effects 514
- plant pathogens
  - transmission 617, 631, 2608, 2610, 3271, 3286, 3521, 3532, 6544, 7311, 7474, 7760, 8707, 9519, 9847, 10451, 10725, 10769, 10777, 10787, 10824, 10836-10837, 11801
  - detection 8342
- potatoes 7234, 8707
  - Costa Rica 602
  - Hokkaido 7754, 7758-7759
  - Idaho 7760
  - Manipur 2502
  - Morocco 10787
  - Parana 4495
  - resistance 3505
  - Venezuela 7751
- predators 5168, 7234, 7754, 7759, 8955, 9850, 11611

**rape**

- Georgia 4618
- Shaanxi 9911
- yield losses 4618
- sarson, Delhi 3587
- sorghum 10725
- stone fruits 9847
- sugarbeet, Europe 2610
- sugarcane, Queensland 2608
- surfactants, toxicity 4273, 10983
- swedes 5384
- sweet potatoes
  - damage 11801
  - Southern Africa 11801

**tobacco**

- Karnataka 5599
- resistance 2621, 9945
- tomatoes
  - Italy 10824
  - New Zealand 6604
  - Pakistan 631
- UK 5109

**vegetables**, Shanghai 8498

- Verticillium lecanii*, toxins, effects 1260

**Myzus varians**

- botanical gardens, Honshu 2135
- ecology, population dynamics 9850
- peaches, Italy 9850-9851
- predators 2135, 9851

**Nabis**

- cotton, fields, California 1636
- ecology, population dynamics 4468, 6536
- fertilizers, effects 4468
- hops, fields, Washington 6834
- insecticides
  - effects 6522
  - pathogenicity 9482
- lucerne
  - fields
    - California 4661
    - Czech Republic 6522

**prey**

- Aphis gossypii* 1636
- Ostrinia nubilalis* 9482
- Phorodon humuli* 6834
- soyabeans
  - fields, Florida 4468
  - Yugoslavia 6536

**Nabis alternatus**

- cotton, fields, Arizona 706, 712
- insecticides, pathogenicity 9482
- irrigation, effects 706, 8679
- lucerne, fields, Manitoba 8679
- prey
  - insect pests 712
  - Ostrinia nubilalis* 9482

**Nabis americanoferus**

- crops, fields, Maryland 9755
- ecology, population dynamics 9755
- insecticides, pathogenicity 9482

**Nabis americanoferus** cont.

- prey, *Ostrinia nubilalis* 9482

**Nabis feroides**, soyabeans, Yugoslavia 6536**Nabis ferus**

- lucerne, fields, Libya 3486
- prey, Aphididae 7663
- soyabeans, Yugoslavia 6536
- wheat, fields, Germany 7663

**Nabis pseudoferus**

- prey, Aphididae 7663
- soyabeans, Yugoslavia 6536
- wheat, fields, Germany 7663

**Nabis punctatus**

- biology 9444
- ecology 9444
- greenhouses, habitats, Italy 9444
- morphology 9444

**Nabis roseipennis**

- crops, fields, Maryland 9755
- ecology, population dynamics 9755

**Nabiseius melinae**

- hosts, *Creontiades* 11362
- taxonomy, new species 11362

**Nacaduba**, taxonomy 31**Nacaduba prominens**, taxonomy 31**Nacoleia octasema**

- bananas, Queensland 1860
- morphology, antennae 1860

**Naled****control**

- Bactrocera* 6598
  - insect pests, groundnuts 3584
- nontarget effects, Braconidae 7521
- resistance, *Tetranychus urticae* 2724, 4579
- toxicity, Tephritidae 7521

**Namibia**

- Acrididae 9288
- Aphytis vastus* 7283
- deserts, Tenebrionidae 11305
- Solanum*, insect pests 8966
- wild plants, seeds, insects 3684

**Nanophyes**

- Ammannia baccifera*, India 8983
- parasitoids 8983

**Nanophyidae**, taxonomy, books 4818**Naphthalene**

- control, arthropod pests, soil 3395
- nontarget effects, soil fauna 3395

**1-Naphthol**, residues, determination 3397**Napomyza cichorii**

- biology, environmental factors 8730
- chicory, Belgium 8730
- monitoring, traps 8730

**Napomyza lateralis**

- biology 6015
- Matricaria inodora*, Yugoslavia 6015
- morphology 6015

**Naranga aenescens**

- Jiangxi 8053
- parasitoids 8053

**Narcissus pseudonarcissus**, extracts, toxicity, *Nilaparvata lugens* 8478**Nardostachys jatamansi****oils**

- effects, *Callosobruchus chinensis* 3675
- repellents, *Callosobruchus chinensis* 1732

**Narnia femorata**

- morphology 11010
- Opuntia pelifera*, Mexico 11010

**Narosa nigrisigna**

- biology 9899
- control 9899
- pomegranates, China 9899

**Nasonia vitripennis**

- cell culture 159
- genetics
  - cell culture 159
  - RNA 1043
  - sex ratio 1207
- pathogens 6224

**Nasonovia ribisnigri**

- control, biological control 11817
- lettuces
  - Germany 11817
  - resistance 11818
- plant extracts, effects 514
- plant oils, effects 514



- Nassophasis aspericollis*, distribution, Taiwan 12040
- Nasturtium officinale* (see Watercress)
- Nasutitermes acatulae*, America 5797
- Nasutitermes anjiensis*  
*Quercus glauca*, Zhejiang 11134  
 taxonomy, new species 11134
- Nasutitermes aquilinus*, morphology 6210
- Nasutitermes corniger*  
 biology, behaviour 11462  
 Formicidae, interactions 11461  
 morphology 6210  
 Venezuela 11461
- Nasutitermes nigriceps*  
 America 5797  
 biology 2684  
 mangroves, Jamaica 2684  
 taxonomy 5797
- Nasutitermes rippertii*  
*Casuarina equisetifolia* 2779  
 creosote, toxicity 2779  
 fuel oils, toxicity 2779
- National Parks**  
 invertebrates, USA 11343  
 Rhopalocera, India 8251
- Natural compounds**, antifeedants, insects 885
- Natural enemies** (see also individual groups of natural enemies)  
 plants, arthropod pests, interactions 2109  
 reviews 6190  
 taxonomy, conferences 6919
- Nature conservation**, Chrysomelidae 1086
- Naupactini**, taxonomy 6958
- Nauru**, *Bactrocera* 10490
- Navicula*, insecticides, effects 10614
- NC-107** (see 4-Chloro-5-(6-chloro-3-pyridylmethoxy)-2-(3,4-dichlorophenyl)-pyridazin-3(2H)-one)
- Neatiolus curculionis*  
 biology 681  
 hosts, *Cylindrocopturus adpersus* 681  
 sunflowers, fields, North Dakota 681
- Neanastatus cinctiventris*  
 hosts, *Orseolia oryzae* 4438  
 rice, fields, Sri Lanka 4438
- Neartic Region**  
 Carabidae 7341  
 Ceromya 4824  
 Cicadellidae 11084  
 Coleophora 1797  
 Cyzenis 1831  
 Eulophidae 4830  
 Trifolium, Coleophora 1797
- Nebria brevicollis*  
 insecticides, toxicity 4308, 10609  
 UK 4308
- Nebria chinensis*, Korea Republic 1158
- Necremnus folia*  
 hosts, *Ceutorhynchus* 10020  
 Spain 10020
- Necremnus tidius*  
 hosts, *Ceutorhynchus* 10020  
 Spain 10020
- Necrobia rufipes*  
 control, chemical control 8991  
 fishes, commodities 8993  
*Plectorhynchus mediterraneus*, commodities, Senegal 8991
- Nectarines** (*Prunus persica*)  
*Anarsia lineatella*  
 California 3539  
 Israel 2564  
 orchards, parasitoids, California 3539  
 pest control, Italy 7823  
 Thripidae  
 Chile 9849  
 damage 6661, 9849  
 Spain 6661
- Nectria coccinea* var. *faginata*, *Cryptococcus fagisuga*, interactions 2667
- Nectria galligena*, *Cryptococcus fagisuga*, interactions 2667
- Necturus maculosus*, insecticides, effects 10628
- Neem extracts**  
 antifeedants  
 insect pests 2616  
*Pomacea* 2445
- Neem extracts** cont.  
 control  
*Bemisia tabaci*  
 aubergines 1831  
 tomatoes 1523  
*Helicoverpa armigera*, chickpeas 5465  
*Hypothenemus hampei*, coffee 6728  
 insect pests  
 aubergines 9815  
 cotton 7896  
 cowpeas 3501  
 ornamental plants 3664  
 rice, books 2830  
*Leptocoris acuta*, rice 3455  
*Lipaphis erysimi*, toria 9796  
*Mythimna separata*, rice 2467  
*Nephotettix virescens*, rice 11746  
 effects  
*Acyrtosiphon pisum* 6326, 10554  
*Bemisia argentifolii*, assays 11655  
*Bemisia tabaci* 7528  
*Hylobius pales* 2258  
 insects 8490  
*Liriomyza trifolii* 11696  
*Locusta migratoria* 1726  
*Nilaparvata lugens*, symbionts 2277  
 Noctuidae 11699  
*Schistocerca gregaria* 1727-1728  
 tomatoes 1523  
 formulations 6305  
 mixtures  
 control  
 insect pests, rice 9722  
*Orseolia oryzae*, rice 5440  
 nontarget effects, *Platyaster oryzae* 5440  
 nontarget effects, predatory arthropods 9722  
 toxicity  
*Acyrtosiphon pisum* 7554  
 arthropods 6305  
*Callosobruchus analis* 11597  
 Coleoptera 4795
- Neem oil**  
 control  
*Contarinia*, *Jasminum sambac* 3665  
*Sciothrips cardamomi*, cardamoms 7988  
*Sitona lineatus* 4473  
*Sitotroga cerealella*, rice 6490  
*Zonocerus variegatus*, cassava 608  
 effects  
 Coleoptera 1310  
*Nilaparvata lugens* 1310  
 formulations 608  
 mixtures  
 control  
*Sitotroga cerealella* 6490  
*Zonocerus variegatus* 608
- Neem seed extract**  
 control  
 insect pests, apples 9832  
*Tetranychus ludeni*, okras 5513
- Neemark** (see Azadirachtin)
- Neknool**, control, insect pests, aubergines 9815
- Nemacur** (see Fenamiphos)
- Nematoda** (see also Entomophilic nematodes)  
 insecticides, effects 7615
- Nematus calais**  
 biology, environmental factors 1674  
 ecology 7921  
 Salix, Alaska 7921  
 Salix lasiandra, Alaska 1674
- Nematus frenalisi**  
 biology, life history 11993  
 control, chemical control 11993  
 Salix, Shandong 11993
- Nematus oligospilus**  
 biology 10948  
 natural enemies 10948  
 Salix, Southern Africa 10948
- Nematus viridis**  
 Betula, Finland 6750  
 ecology, habitats 6750
- Nemhelix bakeri*, hosts, *Helix aspersa* 8413
- Nemognatha chrysomeloides*  
 biology 6032  
 hosts, Apidae 6032
- Nemognatha chrysomeloides* cont.  
 Mexico 6032
- Nemomychidae**, taxonomy, books 4816
- Nemophora bifasciata*  
 biology, behaviour 11094  
 distribution, Japan 11094  
*Hydrangea paniculata*, Japan 11094  
 taxonomy 11094
- Nemoptera bipennis*, interactions, Formicidae 11411
- Nemoria**, taxonomy 44
- Nemosoma elongatum*, prey, *Pityogenes chalcographus* 303
- Nemosturmia amoend* (see *Timavia amoena*)
- Neoplectana* (see also *Steinernema*)
- Neoplectana carpocapsae*, control, *Maladera matrida*, groundnuts 687
- Neoplectana feltiae*, control, *Conorhynchus mendicus*, sugarbeet 1617
- Neoplectana glaseri*, control, *Maladera matrida*, groundnuts 687
- Neoscasia**  
 biology, life cycle 1823  
 Palaearctic Region 1823  
 taxonomy 1823
- Neobisium carcinoides**  
 biology, behaviour 11427  
 prey, *Heteromurus nitidus* 11427
- Neobolitobius*, taxonomy, new genus 922
- Neocapritermes**  
 ecology, population dynamics 3476  
 rice, Goias 3476
- Neochetina bruchi*  
 control, *Eichhornia crassipes* 8984  
*Eichhornia crassipes*, Benin 8984
- Neochetina eichhorniae*  
 control, *Eichhornia crassipes* 8984, 11016  
*Eichhornia crassipes* 3692  
 Benin 8984  
 Ethiopia 11018  
 heavy metals, effects 3692
- Neochrysocharis*  
 taxonomy 8090  
 synonyms, *Ricnopeltomyia* 8090
- Neochrysocharis agromyzae*, taxonomy, from *Derostenus* 8090
- Neochrysocharis arizonensis*, taxonomy, from *Derostenus* 8090
- Neochrysocharis diastatae*, taxonomy, synonyms, *Achrysocharella aetii* 8090
- Neochrysocharis hirsuta*  
 hosts, *Agromyza* 8090  
 taxonomy, new species 8090
- Neochrysocharis marginalis*  
 hosts, *Agromyza* 8090  
 taxonomy, new species 8090
- Neochrysocharis pilosa*  
 hosts, *Phacelia* 8090  
 taxonomy, new species 8090
- Neochrysocharis punctiventris*  
 hosts, *Liriomyza trifolii* 7577  
 insecticides, toxicity 7577
- Neoclytus cordifer*, distribution, Bahamas 9370
- Neodiprion gillettei*, *Pinus ponderosa*, damage 4731
- Neodiprion lecontei**  
 biology, behaviour 12010  
 carbon dioxide, effects 12012  
 Pinopsida, Quebec 759  
 Pinus, Wisconsin 12010  
 Pinus taeda 12012
- Neodiprion maurus**  
 biochemistry, enzymes 2996  
 genetics, heterozygosity 2996
- Neodiprion nanulus**  
 biology, behaviour 12010  
 Pinus, Wisconsin 12010
- Neodiprion pratti**  
 biochemistry, enzymes 2996  
 genetics, heterozygosity 2996
- Neodiprion serifer**  
 biology, behaviour 7949, 12010  
 control  
 biological control 5625  
 mating disruption 7949  
 ecology, distribution 8909  
 forest trees, Germany 5625  
 Latvia 3260  
 monitoring, traps 4727



- Neodiprion sertifer** *cont.*  
 pathogens 3260, 5625  
 pheromones 4727, 11691  
*Pinus*  
   damage 6785  
   Finland 6785  
   Wisconsin 12010  
*Pinus resinosa* 7954  
*Pinus sylvestris*  
   Austria 4727  
   Czech Republic 8909  
   damage 2698  
   Finland 2698  
   Sweden 7949
- Neopetrimerus**, taxonomy, new genus 10104
- Neopetrimerus platyladi**  
 taxonomy, new species 10104  
*Thuja orientalis*, Beijing 10104
- Neorochiton**, taxonomy, new genus 4870
- Neorochiton clareae**  
 taxonomy, new species 4870  
*Weinmannia racemosa*, New Zealand 4870
- Neolasioptera eugeniae**  
*Eugenia*, Rio de Janeiro 3775  
 taxonomy, new species 3775
- Neolema cordata**  
 food plants 917  
 taxonomy, new species 917
- Neolema ovalis**  
 food plants 917  
 taxonomy, new species 917
- Neoleucinodes elegantalis**  
 biology 1517  
   development 1516  
   life cycle 3565  
 control  
   chemical control 9811  
   integrated control 7784  
 natural enemies 3565  
*Solanum quitoense*, Colombia 3565  
 tomatoes 1516  
   resistance 7791  
   Sao Paulo 9811  
   Venezuela 1517, 7784
- Neoleucopis** (see *Leucopis*)
- Neolitsea sericea**, Cecidomyiidae, Japan 6802
- Neomaskellia**, sugarcane, India 1615
- Neomolgus capillatus**, prey, *Sminthurus viridis* 11754
- Neomyia**, apples, orchards, Himachal Pradesh 6645
- Neomysis mercedis**, insecticides, residues 8551
- Neoneurinae**, taxonomy 6985
- Neopachytychius squamosus**  
 morphology 5822  
 South America 5822  
 taxonomy 5822
- Neoron** (see *Bromopropylate*)
- Neoscona**  
 ecology, population dynamics 1417  
 prey, *Atherigona soccata* 1417  
 sorghum, fields, Burkina Faso 1417
- Neoseiulus barkeri** (see *Amblyseius barkeri*)
- Neoseiulus californicus**  
 biology, reproduction 5173, 9439  
 crops, greenhouses 5174  
 field crops, habitats, Italy 5174  
*Phaseolus*, fields, Portugal 6542  
 prey  
   Acari 9439  
   *Tetranychus urticae* 5173
- Neoseiulus cucumeris**  
 biology  
   behaviour 212, 5156  
   reproduction 5173  
 control  
   *Frankliniella occidentalis*, evaluation 8452  
   *Thrips*, *Capsicum* 6613  
 pesticides, effects 11640  
 prey  
   *Dermatophagoides farinae* 5173  
   *Frankliniella occidentalis* 5156  
   *Tyrophagus putrescentiae* 6613
- Neoseiulus fallacis**  
 apples, orchards, New York 649  
 biology, intraspecific competition 9438
- Neoseiulus fallacis** *cont.*  
 control  
   *Tetranychus urticae*  
     hops 12049  
     strawberries 9859  
 ecology, population dynamics 649  
 hops, fields, Oregon 12049  
 pesticides, effects 649, 3344  
 prey, *Tetranychus urticae* 9438  
 strawberries, fields, Oregon 9859
- Neoseiulus idaeus**  
 biology, environmental factors 323  
 Brazil 2507  
 Mato Grosso do Sul 323  
 prey  
   *Mononychellus tanajoa* 2507  
   *Tetranychidae* 323
- Neoseiulus longispinosus**  
 biology  
   behaviour 215, 7334  
   development 8381  
   life cycle 4098  
 diets 8381  
 ecology, population dynamics 2576, 5541  
 grapes, habitats 5541  
 pesticides, effects 2576  
 prey  
   *Oligonychus indicus* 8381  
   *Oligota kashmirica benefica* 613  
   *Panonychus citri* 7859  
   *Tetranychus* 2576  
   *Tetranychus kanzawai* 5541  
   *Tetranychus urticae* 4098, 7334  
 resistance 449  
 tea, plantations, Honshu 449  
 watermelons, fields, Honshu 2576  
*Ziziphus mauritiana*, habitats, Taiwan 7859
- Neosymydobius**, taxonomy 5799
- Neosymydobius agrifoliae**, taxonomy 5799
- Neotaphos rachelis**  
 biology 5688  
*Ephedra*, Chile 5688
- Neotermes castaneus**  
 Florida 6968  
 taxonomy 6968
- Neotermes jouteli**  
 Florida 6968  
 physiology, compound eyes 7025  
 taxonomy 6968
- Neotermes luykxi**  
 Florida 6968  
 taxonomy 6968
- Neothoracaphis hangzhouensis** (see *N. yanonis*)
- Neothoracaphis yanonis**  
 biology, life history 3653  
 control, chemical control 3653  
 forest trees, Jiangsu 3653
- Neotomodon alstoni**, prey, arthropods 1984
- Neotrichoporoides**  
 hosts, *Atherigona soccata* 1447  
 sorghum, fields, Ethiopia 1447
- Neotrichoporoides nyemitawus**  
 biology, behaviour 8380  
 hosts, *Atherigona soccata* 2440, 8380  
 sorghum, fields, Burkina Faso 2440
- Neotropical Region**  
*Aphytis* 7282  
*Haeckelia* 4838
- Neozygites**, hosts, *Mononychellus tanajoa* 5479
- Neozygites floridana**  
 biology, environmental factors 9502  
 hosts, *Tetranychus urticae* 6247, 9502
- Neozygites fresenii**  
 control, *Aphis gossypii*, evaluation 4139  
 hosts  
   *Aphis gossypii* 4139, 11964, 11967  
   *Brevicoryne brassicae* 1263
- Neozygites parvispora**, hosts, *Frankliniella occidentalis* 8745
- Nepal**  
 cardamoms, insect pests 809  
 Lepidoptera 24  
 plant protection, reports 2807  
 potatoes, insect pests 5472  
 soyabeans, Coleoptera 10766  
*Strouhalium* 2832
- (1R,4aS,7S,7aR)-Nepetalactol**, pheromones, Aphididae 1394
- (-)-(1R,4aS,7S,7aR)-Nepetalactol**, pheromones, *Aphis fabae* 7081
- (4AS,7S,7aR)-Nepetalactone**, pheromones, Aphididae 1394
- (+)-(4aS,7S,7aR)-Nepetalactone**, pheromones, *Aphis fabae* 7081
- Nephantis serinopa** (see *Opisina arenosella*)
- Nephila clavata**, venoms 4094
- Nephila clavipes**  
 biochemistry, silk 4942  
 ecology 2103  
 genetics  
   development 957  
   silk, proteins 11247  
 Mexico 957
- Nephila maculata** (see *Nephila pilipes*)
- Nephila pilipes**, venoms 4094
- Nephopterix eugraphella**  
 biology, environmental factors 11981  
 control, chemical control 5563  
 ecology, population dynamics 11981  
 sapodillas, Gujarat 5563, 11981
- Nephotettix**  
 biology 6936, 10742  
 ecology, distribution 9718  
 monitoring, traps 1453  
 plant pathogens, transmission 6936  
 rice 6936  
   Karnataka 1453  
   Kerala 3478  
   Philippines 572  
   Uttar Pradesh 9718
- Nephotettix cincticeps**  
 biochemistry, secretions 10171  
 ecology, population dynamics 8660  
 honeydew 7709  
 Honshu 437  
 insecticides  
   resistance 437, 7539  
   toxicity 7541  
 Japan 7539  
 plant pathogens, transmission 2456, 3285, 10742  
 rice 2456, 10742  
 Kyushu 8660  
 resistance 7709
- Nephotettix malayanus**  
 genetics 6488  
*Leersia hexandra*, Malaysia 6488
- Nephotettix nigropictus**  
 control, chemical control 7713  
 ecology, population dynamics 7713, 8291  
 genetics 6488  
 monitoring, traps 8291  
 plant pathogens, transmission 10742  
 Poaceae, Malaysia 6488  
 rice 10742  
   Philippines 7713  
   West Bengal 8291
- Nephotettix virescens**  
 control, chemical control 7713, 11746  
 ecology, population dynamics 7713, 8291  
 genetics 6488  
   genetic variation 11740  
   resistance 11741  
 monitoring, traps 8291  
 pathogens 4154  
 plant pathogens, transmission 575, 2457, 10742  
 rice 575, 2457, 10742, 11741, 11746  
 Malaysia 6488  
 Philippines 7713, 11740  
 West Bengal 8291
- Nephrotoma**  
 Korea Republic 6951  
 taxonomy 6951
- Nephrotoma ferruginea**, genetics, chromosomes 10222
- Nephrotoma flavescens**, taxonomy 898
- Nephus bisignatus** (see *N. georgei*)
- Nephus georgei**  
*Juniperus*, habitats, Italy 782  
 prey, *Planococcus vovae* 782
- Nephus reunioni**  
 control, *Planococcus citri*, evaluation 5553  
 prey, *Planococcus citri* 5553
- Nephtulidae**  
 biology 10306  
 distribution, Germany 10306



- Neptyia freemani*, forest trees, British Columbia 6800
- Nerium*, *Poecilocerus pictus* 2403
- Nerium oleander* var. *indicum*  
*Aphis nerii*, Honshu 797  
 beneficial insects, Honshu 797
- Nesodiprion japonicus*  
 biology, life cycle 7935  
 ecology, population dynamics 7935  
 Pinopsida 7935
- Nesolynx thymus*  
 attractants 6052  
 control  
*Exorista bombycis*  
 evaluation 6271  
 silk 5730  
 ecology, life tables 6271  
 hosts, *Exorista bombycis* 5730, 6052
- Netelia sayi*  
 cotton, fields, Florida 4667  
 hosts, Noctuidae 4667
- Netherlands**  
 Acridoidea, nature conservation 1116  
*Actinotia hyperici* 10297  
*Apis mellifera*, ectoparasites 7352, 8388  
 apples, *Panonychus ulmi* 4562  
 arthropods 6086  
*Asellus aquaticus*, insecticides, effects 6370  
*Asobara rufescens* 306  
 asparagus, pest control 623  
 cabbages, insect pests 7771  
 Carabidae 1114  
 celery, pest control 7779  
 Coleoptera 1113  
*Cryptomyzus alboapicalis* 1555  
*Cryptomyzus galeopsidis* 1555  
*Cryptomyzus ulmeri* 1555  
*Cynoglossum officinale*  
*Ceutorhynchus crucifer* 2748  
 habitats, *Tersilochus* 2748  
*Drosophila melanogaster* 1002  
*Eristalis* 5842  
 field crops, pest control 1283  
 fisheries, pesticide residues 11609  
 forests, insects 2644  
 galls 11283  
 grasslands, Tipulidae 2472  
 greenhouse crops, *Bemisia tabaci* 4759  
 Heteroptera 1166  
 nature conservation 1118  
 insecticides, legislation 2243  
 insects 2730  
 nature conservation 1111, 1119, 1788  
 leeks, *Acrolepiopsis assectella* 97  
 Lepidoptera 1167  
 nature conservation 1117  
 Odonata 1112  
 pesticides  
 registration 5285  
 usage 427, 4243, 6346  
 models 10475  
*Phragmites australis*, *Lipara lucens* 7997  
*Porcellio scaber* 1306  
*Quercus robur*, Coleoptera 8875  
 sediment, pesticide residues 8589  
*Senecio jacobaea*, natural enemies 5723  
 soil, pesticides, residues, determination 10666  
 sugarbeet  
 arthropod pests 11954  
 pest control 697  
 Syrphidae, nature conservation 1115  
 temperate fruits, pest control, reports 853  
*Tetranychus urticae* 4005  
*Tettigonia cantans* 1146  
*Tilia*, *Bucculatrix thoracella* 10952  
 water, pesticide residues 508  
 wheat, fields, Linyphiidae 5407
- Neurocolpus nubilus*, morphology, eggs 2868
- Neuroparsin*, effects, *Locusta migratoria* 5890
- Neuroptera**  
 biology, environmental factors 6541  
 distribution, Puerto Rico 10326  
 ecology, habitats 2013  
 insecticides, effects 2122  
 lucerne, fields, West Virginia 8682  
 monitoring, traps 3633  
 New South Wales 1165
- Neuroptera cont.**  
*Phaseolus vulgaris*, fields, Kenya 6541  
 prey  
*Aphis fabae* 6541  
*Hypera postica* 8682  
 taxonomy 907  
 Washington 2013  
 woodlands, UK 3633
- Neuroterus aprillinus*, distribution, Irish Republic 7268
- Neuroterus numismalis*  
*Quercus*  
 galls 7918  
 UK 7918
- Neuroterus quercusbaccarum*  
*Quercus*  
 galls 7918  
 UK 7918
- Neurotoma harai*  
 biology, behaviour 6758  
*Quercus crispula*, Hokkaido 6758  
 taxonomy, new species 6758
- Neurotropic drugs**, uptake, fishes 2303
- New Caledonia**  
 coffee, *Hypothenemus hampei* 258, 397  
*Colocasia esculenta*, pest control 8719  
 forests, arthropods 8895  
*Hypothenemus hampei* 5293
- New journals**, entomology 9046
- New Zealand**  
 Anthicidae 9058  
 apples  
*Dasineura mali* 6638  
*Edwardsiana crataegi* 6637  
*Epiphyas postvittana* 7820  
 orchards, *Typhlodromus pyri* 6632  
*Panonychus ulmi* 6632  
 Tortricidae 3536  
 asparagus, commodities, insect pests 6597  
 avocados, commodities, insect pests 11038  
 Bembidiina 1159  
*Brassica*, Collembola 6578  
 cabbages  
*Brevicoryne brassicae* 6604  
 fields, Syrphidae 6577  
 insect pests 6577  
*Capsicum*, *Thrips* 6613  
*Chalmus chalybeus* 6695  
*Citrus*, Coccidae 6679  
 Coleoptera 905  
 crops, fields, Carabidae 9445  
 Cryptorhynchinae 8052  
*Cytisus scoparius*, invertebrates 6849  
*Dacrydium colensoi*, *Eriochiton propepi-nosus* 4870  
 environment, insecticide residues 11663  
*Epiphyas postvittana* 6286  
 food plants, *Nicaeana* 6521  
 forest trees, insect pests 1646  
 fruits  
 pest control 7807  
 Pseudococcidae, natural enemies 640  
 Tortricidae 6628  
 grapes, Tortricidae 10869  
 grasses  
 insect pests 6515  
*Listronotus bonariensis* 6508  
 Hepialidae 8068  
*Hoheria angustifolia*, *Eriochiton hoheriae* 4870  
 invertebrates 6743  
 kiwifruits  
*Cnephasia jactatana* 675  
 Diaspididae 6691  
 insect pests 6695  
*Thrips obscuratus* 5546, 8777  
 Tortricidae 6692  
 Lepidoptera 1133  
*Lolium*  
*Costelytra zealandica* 6514  
*Listronotus bonariensis* 6509  
*Lotus uliginosus*, *Merophyas divulsana* 4464  
 lucerne  
 Curculionidae 6525  
 fields  
*Microctonus aethiopoides* 6525  
*Microctonus zealandicus* 906  
*Irenimus aequalis* 906
- New Zealand cont.**  
*Microctonus hyperodae* 6270  
*Nothofagus*  
 forests, *Microctonus falcatus* 906  
 insects 4713  
*Nothofagus solandri*, *Platypus* 7928  
*Nothofagus truncata*, *Platypus* 7927  
 orchards  
 Tortricidae 3310, 3536  
 natural enemies 5254  
 pastures  
*Costelytra zealandica* 2478, 6511, 11762  
*Graphognathus leucoloma* 6510  
*Listronotus bonariensis* 2217, 6502, 6507  
 parasitoids 6512  
*Microctonus* 1462  
 pest control 531  
 legislation 6293  
 Pinopsida, commodities, insect pests 1767  
*Rhyzobius fagus* 6695  
 sediment, pesticide residues 493  
 shrubs, *Microctonus alpinus* 906  
 Sphecidae 4852  
 swedes, *Nysius huttoni* 6579  
 Talitridae 4861  
 tangelos, *Ceroplastes destructor* 1568  
 tomatoes  
 Aphididae 6604  
*Helicoverpa armigera* 6605  
 Tortricidae 9012  
*Trifolium*, *Sminthurus viridis* 7725  
*Trifolium repens*  
*Costelytra zealandica* 1468  
*Nicaeana cinerea* 6524  
*Ulex europaeus*, *Deinacrida* 1076  
*Vespula* 3119  
*Weinmannia racemosa*, *Neoeriochiton clareae* 4870  
 wheat, *Nysius huttoni* 3432  
 woody weeds, natural enemies 8978
- Nexeter** (see Pyridaben)
- Nezara**  
 biology, development 11149  
 Japan 975
- Nezara antennata**  
 okras  
 damage 10838  
 Japan 10838  
 pheromones 975
- Nezara viridula**  
 Argentina 3084  
 biochemistry  
 pheromones 9177  
 secretions 4938  
 biological control agents, evaluation 11918  
 biology  
 behaviour 7059, 10758  
 diapause 3920  
 environmental factors 4016  
 control, chemical control 1583, 9750  
 crops, South Carolina 4107  
 ecology, population dynamics 4472  
 France 7059  
 French West Indies 7059  
 granadillas 1583  
 hosts, *Trissolcus basalus* 65  
 insecticides, toxicity 1472  
 Italy 975  
 Japan 975  
*Macadamia*, South Africa 11918  
 morphology 4893  
 polymorphism 2870  
 sense organs 5831  
 natural enemies 4107  
 parasitoids 3084, 7156, 7226, 7304, 11390, 11918  
 pathogens 10434  
 pecans  
 damage 9905  
 South Africa 9905  
 pheromones 975, 1393, 7059  
 physiology, secretions, analysis 11766  
 predators 10383  
 rice  
 damage 9732  
 Orissa 9732  
 soyabeans 1472, 10758



synthesis 9966  
 beetroots, France 1497  
 Beijing 5272  
 Bulgaria 11689  
 control  
     chemical control 1497, 1595  
     integrated control 11870  
 crops, Sweden 1300  
 distribution  
     Germany 10305  
     Korea Republic 11375-11376  
     Poland 6090  
*Fagus*, Slovakia 3642  
 field crops  
     Shandong 10917



**Noctuidae cont.**

- field crops cont.
- yield losses 10917
- forests
- Honshu 9966
- Virginia 11986
- genetics, population genetics 2987
- Japan 2987
- lettuces, Europe 10812
- monitoring, traps 5272, 10300
- parasitoids 9066
- pathogens 3254
- physiology, pheromones 5891
- Portugal 9066
- strawberries, Italy 11870
- sunflowers, France 1595
- Switzerland 10300
- taxonomy 3737

**Noctuidonema guyanense**, hosts, *Spodoptera frugiperda* 2188, 6236**Noctuoidea**, taxonomy 6**Nomadacris septemfasciata**

- control 10712
- maize, Madagascar 10712

**Nomius pygmaeus**, distribution, Spain 1160**Nomuraea cylindrospora**, taxonomy, from *Metarhizium* 5235**Nomuraea rileyi**

- biochemistry, cell walls 369
- control

*Spodoptera litura*

- evaluation 2600

*Ricinus communis* 2600

## hosts

- Anticarsia gemmatilis* 4144, 6227
- Hypena scabra* 10762
- Noctuidae 8419
- Odontotermes obes* 6243
- Spodoptera exigua* 369, 4159
- Spodoptera frugiperda* 2199
- Spodoptera littoralis* 2194
- Spodoptera litura* 2600
- insecticides, effects 4144
- storage 6227
- toxins 2182

**Nonachlor**

- nontarget effects, *Mergus serrator* 8537
- residues, fishes 6363

**trans-Nonachlor**, residues, turtles 3372**(S)-(E)-6,8-Nonadien-2-ol**, pheromones,*Stigmella malella* 9652**(S)-(Z)-6,8-Nonadien-2-ol**, pheromones,*Stigmella malella* 9652**Nonanal**, effects, insects 9979**2-(E)-Nonen-1-ol**, pheromones, *Anomala* 4546**(E)-2-Nonenol**, mixtures, attractants,*Exomala orientalis* 1892**Nongda 931**, control, *Helicoverpa armigera*, cotton 10924**Nonionic surfactants**

- control, *Aphis gossypii*, *Hibiscus mutabilis* 10983

- toxicity, *Myzus persicae* 10983

**Nontarget organisms**, insecticides, effects 7625**North Africa**

- Apion hookeri* 820
- Papilio saharae* 3748
- Papilionidae 1796
- Taeniothrips inconsequens* 1150
- Zygaenidae 9069

**North America**

- Acroceridae 5154
- Agropyron*, Miridae 10745
- Aphidoidea, predators 6164
- apples, integrated pest management, reviews 6641
- Araneae, parasitoids 5154
- Asclepias*, *Danaus plexippus* 146
- Belomicrus* 11115
- Bemisia tabaci* 4209
- Castanea pumila*, *Harmandia amisae* 5653
- Cirsium arvense*, *Terellia ruficauda* 5728
- conifers, *Pissodes strobi* 757
- Drosophila athabasca* 11281
- forest trees, insect pests 1647
- Fulvius* 1848
- grasses
- Cicadellidae 8088

**North America cont.**

- grasses cont.
- Noctuidae 5456
- Gryllus* 9111
- hazelnuts, insect pests 4612
- Heliothis virescens* 5992
- Homoptera 11318
- insects 6105
- Lymantria dispar* 2656
- Mindarus* 10975
- Mycobates* 5798
- Myxomycota, Coleoptera 11294
- Nitidotachinus* 1798
- Operophtera brumata* 9525
- Panscopus* 4819
- pest management, forecasting 6108
- Phragmatobia* 8306
- Picea glauca*, *Dendroctonus punctatus* 9994
- Proctacanthus* 7340
- Rhododendron*, *Stephanitis pyrioides* 8944
- Spodoptera frugiperda* 1046
- Taeniothrips inconsequens* 1150
- Trifolium*, *Tychius* 6526
- Vaccinium macrocarpon*, pest control 8770
- wheat, integrated pest management 6439
- Yponomeuta* 9089

**North Korea** (see *North Korea Democratic People's Republic*)**North Sea**

- cod liver oil, pesticide residues 3360, 3367
- Limanda limanda*, pesticide residues 10610
- pesticides, residues 8586

**Norway**

- alpine plants, pollinators 5705
- apples, orchards, Phytoseiidae 9831
- Bembidiini 1208
- cabbages, *Delia* 7767
- cereals
- fields, Coleoptera 2406
- Rhopalosiphum padi* 2406
- Dactylis glomerata*, insect pests 6527
- Euphorbia pulcherrima*, insect pests 9034
- fishes, pesticide residues 2334
- Halichoerus grypus*, pesticide residues 459
- human milk, insecticide residues 8535
- oats, Aphididae, predators 1432
- Odonata 3081
- Opiliones 1142
- orchards, insect pests 1391
- Pallopteridae 7289
- pastures, *Rhopalocera* 7240
- Picea*, forests, Mycetophilidae 8923
- Picea abies*
- Coleoptera 10974
- insect pests, natural enemies 7959
- Scolytidae 8924

*Pinus sylvestris*

- Coleoptera 1692
- pesticide residues 5671
- rain, pesticide residues 10661
- Salix lapponum*, *Cacopsylla* 11994
- soil, pesticide residues 5366-5367
- Tipulidae 1071
- Ulmus glabra*, *Scolytus laevis* 747
- water, insecticide residues 2379
- weeds, pollinators 2761

**Norway spruce** (see *Picea abies*)**Norwegian Sea**, cod liver oil, pesticide residues 3360, 3367**Nosema**

## hosts

- Antheraea mylitta* 360
- Bombyx mori* 9469
- Chorhiippus curtipennis* 363
- Lepidoptera 366, 9471
- Lymantria dispar* 1679
- Phthorimaea operculella* 5475
- Prostephanus truncatus* 7436
- Spodoptera litura* 368
- morphology, spores 368
- Nosema aenesens*, hosts, Chrysomelidae 11531
- Nosema apis*
- acaricides, effects 4123
- hosts, *Apis mellifera* 4123

**Nosema bombycis**

- biology, development 9470
- genetics
- chromosomes 5207
- DNA probes 9460
- hosts
- Bombyx mori* 9470
- Lepidoptera 9471
- Opodiphthera eucalypti*, cell lines 5205

**Nosema bordati**

- hosts
- Chilo partellus* 2190
- insects 2129

**Nosema carpocapsae**, hosts, *Cydia molesta* 8411**Nosema costelytrae**, genetics, DNA probes 9460**Nosema empoascae**, hosts, *Empoasca fabae* 11500**Nosema fumiferanae**, hosts, *Choristoneura fumiferana* 9568**Nosema furnacalis**

- control, *Ostrinia nubilalis*, evaluation 9482

## culture techniques 2179

## hosts

- beneficial insects 9482

*Helicoverpa zea*, cell lines 9493*Ostrinia furnacalis* 2179, 9482

## spores

- identification 9493

## isolation 9493

**Nosema locustae**

## control

- Acrididae 276
- evaluation 6144

- genetics, chromosomes 6225
- hosts, *Locusta migratoria* 8412, 11528

**Nosema marucae**

- control, *Chilo partellus*, sorghum 3449
- hosts, *Chilo partellus* 3449, 6242

**Nosema mesnili**, hosts, *Pieris canidia* 10414**Nosema pyrausta**, hosts, *Ostrinia nubilalis* 4423, 10370**Nosema serbica**, hosts, *Lymantria dispar* 1679**Nostoc muscorum**, insecticides, degradation 2309**Notarcha basipunctalis**

- Japan 3769
- pheromones 3769
- taxonomy, chemotaxonomy 3769

**Nothofagus**

- forests, *Microctonus falcatus*, New Zealand 906

## Pteromalidae, galls 10935

**Nothofagus antarctica**, *Aditrochus gnirensis*, Argentina 10935**Nothofagus dombeiyi**

- Aditrochus coihuensis*, Argentina 10935
- Basileura osornoensis*, Chile 1806

**Nothofagus fusca**

- habitats, *Vespula*, New Zealand 4713
- Ultracoelostoma*, New Zealand 4713

**Nothofagus menziesii**

- habitats, *Vespula*, New Zealand 4713
- Ultracoelostoma*, New Zealand 4713

**Nothofagus obliqua**, *Espinosa*, Argentina 10935**Nothofagus pumilio**

- Aditrochus fagicolus*, Argentina 10935
- invertebrates, Chile 5660

**Nothofagus solandri**

- habitats, *Vespula*, New Zealand 4713
- Platypus

## damage 7928

- New Zealand 7928
- Ultracoelostoma*, New Zealand 4713

**Nothofagus truncata**

- habitats, *Vespula*, New Zealand 4713
- Platypus, New Zealand 7927

- Ultracoelostoma*, New Zealand 4713

**Notiophilus biguttatus**

- ecology 1063
- urban areas, Germany 1063

**Notiophilus palustris**

- ecology 1063
- urban areas, Germany 1063

**Notiophilus rufipes**

- ecology 1063



- Notiophilus rufipes* cont.**  
urban areas, Germany 1063
- Notodonta dromedarius***, pheromones 10673
- Notodonta torva***, pheromones 10673
- Notodontidae**  
*Eucalyptus*, Brazil 1660  
*Fagus*, Slovakia 3642  
morphology, pupae 3789
- Notropis hudsonius***, insecticides, residues 457
- Nova Scotia**, apples, *Panonychus ulmi* 2558
- Novitzkyanus cryptogaster***  
France 8403  
hosts, *Sarcophaga penicillata* 8403
- Novodor** (see *Bacillus thuringiensis* subsp. *tenebrionis*)
- NTN 33893**, control, *Phyllocnistis citrella*, *Citrus* 11897
- Nu-lure**, mixtures, attractants, *Anastrepha suspensa* 9659
- Nuclear polyhedrosis viruses**  
*Autographa californica*, genetics, genes 5005, 5241  
biochemistry 5230, 8425, 11481  
DNA 4177  
biology  
dispersal, models 10942  
environmental factors 4186  
control  
*Agrotis segetum*, field crops 6457  
*Anticarsia gemmatilis*, soyabeans 1256, 11767  
chemical control 9488  
*Ectropis obliqua* 9529  
forest pests 5625  
*Helicoverpa armigera*  
chickpeas 1484  
cotton 7892  
*Helicoverpa zea*, sorghum 2191  
insect pests, cotton 4662  
*Lymantria dispar*  
forest trees 4679  
*Quercus* 365  
*Manduca sexta*, evaluation 2175  
Noctuidae, field crops 2404  
*Spodoptera frugiperda*, maize 6462  
*Spodoptera littoralis*, cotton 5602  
*Spodoptera litura*, tobacco 3609  
culture techniques 2165, 8421  
disinfectants, effects 9468, 9473  
effects  
beneficial insects 9441  
*Bombyx mori* 9391  
rodents 8555  
enzymes, production 5242  
formulations 7433, 7892  
genetics 4201, 5236, 6231, 6233, 6249, 6253, 7443, 10426  
DNA 10409, 11482  
recombination 8439  
DNA replication 11487  
gene expression 4169, 5227, 8423  
toxins 7457  
gene transfer 6230  
genes 1253, 4150, 4170, 9485  
transcription 11480  
genetic engineering 1443, 5224, 5233, 5242, 9236, 9507, 10410, 10416, 10424, 11492, 11496  
genetic vectors 1270  
genomes 7444  
mutants 10405  
mutations 9486  
nucleotide sequences 4167, 5214, 8426, 8430  
plasmids 6252  
hosts  
*Amorbia cuneana* 8424  
*Antheraea mylitta* 9488  
*Anticarsia gemmatilis* 4469, 5245, 5251, 6260, 11767  
*Autographa californica* 359, 3829, 6231, 8425, 10412  
*Biston thibetaria* 8429  
*Bombyx mori* 269, 1237, 2174, 2176, 4201, 7457, 7465, 9227, 10390, 10405, 11523  
cell lines 269, 7455  
*Cryptoblabes gnidiella* 8424  
*Cyclophragma yamadai* 7914  
*Diatraea saccharalis* 6238
- Nuclear polyhedrosis viruses cont.**  
hosts cont.  
*Ectropis obliqua* 8421, 9529  
forest pests 5625  
*Helicoverpa armigera* 374, 710, 2184, 3411, 5230, 7638  
*Helicoverpa zea* 6233, 9483, 9511, 11499  
*Heliothis virescens* 9952  
*Hyphantria cunea* 6230  
insect pests 3260  
cell lines 8423  
insects 4174, 9485  
Lepidoptera 1253, 2163, 4150, 5224, 6238, 7443-7445, 8435, 10416  
cell lines 373, 2163, 4191  
*Lymantria dispar* 1671, 4142, 8444-8445, 10942, 11524  
cell lines 5220  
*Malacosoma californicum* 4173  
*Malacosoma disstria* 9505  
*Mamestra brassicae* 5246, 6241, 7460  
*Manduca sexta* 2175  
*Mythimna separata* 5208, 9487  
Noctuidae 391, 1248, 1267, 1443, 2168, 2170, 2191, 4148, 4155, 5227, 5236, 5242, 6255, 7451, 9486  
cell lines 11512  
*Pengonia lusca* 5594  
*Spilarcia obliqua* 9473  
*Spodoptera* 10437  
*Spodoptera depravata* 10008  
*Spodoptera exigua*, cell lines 9489  
*Spodoptera frugiperda* 4177, 6462, 7128, 11493  
cell lines 1255, 2165, 6249, 6252-6253, 8408, 8426, 9507, 9509, 10424, 10427, 11492  
*Spodoptera littoralis* 5602, 6244, 7433  
*Spodoptera litura* 3609, 8430, 8555  
cell lines 7462  
*Thysanoplusia orichalcea* 1469  
*Trichoplusia ni* 8439  
cell lines 4198  
identification 11523  
oils, effects 7433  
proteins, characterization 2163  
spread 4469
- Nudaurelia cytherea*** (see *Imbrasia cythera*)
- Nurseries**  
books 9035  
pest control 9035
- Nusalala uruguayana***  
biology  
behaviour 8253  
reproduction 7016  
prey, *Uroleucon* 7016
- Nut crops**, *Monolepta australis*, Northern Territory 2650
- Nutmeg trees** (see *Myristica fragrans*)
- Nuts**, pest control, reviews 643
- Nuvacron** (see *Monocrotophos*)
- Nycteola asiatica***, distribution, Germany 10305
- Nycticorax nycticorax***  
insecticides, residues 10626  
pesticides, residues 11624
- Nymphalidae**  
National Parks, India 8251  
anatomy 908  
biology, flight 192  
Colombia 5090  
distribution, Costa Rica 2024, 4051  
ecology, population dynamics 8251  
morphology 6997  
Panama 192  
South Asia 24  
Southern Africa 9375  
taxonomy 24
- Nysius***  
Palaeartic Region 8064  
taxonomy 8064
- Nysius huttoni***  
control, chemical control 6579  
swedes, New Zealand 6579  
wheat  
damage 3432  
New Zealand 3432
- Nysius plebeius***  
biology, life history 7979  
chrysanthemums, Korea Republic 7979  
monitoring, traps 7979
- Nysius raphanus***, distribution, Turks and Caicos Islands 6099
- Nystalea nyseus***  
control, biological control 739  
*Eucalyptus*, Bahia 739
- Oaks** (see *Quercus*)
- Oats** (*Avena sativa*)  
Acari  
damage 11704  
varietal reactions 11704
- Aphididae**  
Norway 1432  
Poland 10703  
*Chinomus haywardi* 3425  
*Diuraphis noxia* 6421  
fields  
beneficial insects, Poland 10703  
predatory arthropods, Norway 1432  
flours, *Tribolium castaneum* 8022  
insect pests  
Argentina 7648  
damage 4398  
Georgia 4398, 9670  
Sweden 1300  
*Melanoplus sanguinipes* 8177  
*Oscinella frit* 1467  
pest control, reports 860  
pesticides, residues 578  
*Rhopalosiphum padi* 5400, 9692, 10704  
France 7640  
Ontario 6007  
*Sitobion avenae*, Germany 7643  
*Systema argentinensis*, Argentina 182  
Thysanoptera, North Carolina 9279
- Oberea***, parasitoids 4854
- Oberea artocarp***  
biology 9880  
mulberries  
damage 9880  
Kerala 9880
- Obereopsis brevis***  
control, cultural control 3492  
soyabeans  
Madhya Pradesh 3492  
resistance 3492
- Obesomicrodus***, taxonomy, synonyms, of *Bassus* 2842
- Obtusiclava oryzae*** (see *Propicicrocytus mirificus*)
- Occidryas chalcadonia***  
biochemistry, iridoid glycosides 3861  
*Penstemon*, Colorado 3861
- Occidryas editha***  
biology, behaviour 11327  
evolution 11140  
food plants, America 11140  
genetics, population genetics 10235  
Scrophulariaceae, California 11327  
USA 10235
- Occidryas editha bayensis***  
biology  
behaviour, models 8264  
reproduction 3923  
California 1172, 3923  
ecology, models 1172
- Oculoxenium***, taxonomy, synonyms, of *Endaphis* 4593
- Oceania**, biological control 11544
- Ochetellus glaber***, *Coptotermes formosanus*, interactions 6205
- Ochetomyrmex***  
ecology 7902  
forests, Espirito Santo 7902  
prey, *Aeneolamia* 5457
- Ochetomyrmex auropunctatus***  
cocoa, Venezuela 5597  
coffee  
Cuba 4088  
damage 4088  
distribution, British Columbia 9368  
plant extracts, repellents 1402  
*Toumeyella lignumvitae*, interactions 11
- Ochlodes venata***  
biology, behaviour 5057  
Denmark 5057
- Ochridia geniculata***, biology, development 5020



- Ochridia gracilis gracilis*, Algeria 9362  
*Ochrobactrum anthropi*, *Steinernema scapterisci*, symbiosis 10449
- Ochropleura fennica*  
 biological control agents, evaluation 9528  
 forest trees, British Columbia 6800  
 parasitoids 9528
- (E)- $\beta$ -Ocimene, attractants, *Phytoseiulus persimilis* 4355
- Ocimum basilicum*  
 insect pests, Florida 6832  
 oils, effects, *Acanthoscelides obtectus* 5692
- Ocimum gratissimum*  
 extracts, effects, *Aphis craccivora* 807  
 insecticidal properties 807
- Ocnerostoma pinariellum*  
 parasitoids 3232  
*Pinus cembra*, Italy 3232
- Ocnogyna baetica*  
 natural enemies 330  
 pathogens 2173, 4146, 7432  
 Spain 330, 2173, 4146, 7432
- Ocotea*, *Coptotermes*, Amazonia 5628
- Ocotea foetens*  
 extracts  
 effects, insect pests 804  
 toxicity, *Drosophila melanogaster* 804  
 insecticidal properties 804
- (9Z,12Z)-9-12-Octadecadienoic acid, attractants, *Diabrotica virgifera* 7681
- (2E,13Z)-2,13-Octadecadien-1-ol acetate mixtures, pheromones, Sesiidae 515  
 pheromones, *Synanthedon tipuliformis* 2565  
 synthesis 2565
- (3E,13Z)-3,13-Octadecadien-1-ol acetate mixtures, pheromones, Sesiidae 515  
 pheromones, *Synanthedon tipuliformis* 2565
- (3Z,13Z)-3,13-Octadecadien-1-ol acetate, mixtures, pheromones, Sesiidae 515
- (3Z,13Z)-3,13-Octadecadien-1-ol, mixtures, pheromones, Sesiidae 515
- (E)-13-Octadecenyl acetate, attractants, *Cryptoblabes gnidiella* 6669
- (Z)-13-Octadecenyl acetate, mixtures, attractants, *Cryptoblabes gnidiella* 6669
- (Z)-13-Octadecen-1-ol, pheromones, *Cnaphalocrocis medinalis* 7631
- (Z)-11-Octadecenyl acetate, pheromones, *Drosophila melanogaster* 8605
- (Z)-13-Octadecenyl acetate, pheromones, *Cnaphalocrocis medinalis* 7631
- (Z)-9-Octadecenoic acid, attractants, *Diabrotica virgifera* 7681
- (2E,6E)-2,6-octadiene-1,8-diol diisovalerate pheromones, *Agriotes tauricus* 521  
 synthesis 521
- (E)-2-Octenal  
 attractants, *Telenomus* 7502  
 secretions  
*Lincus* 4885  
*Lincus spursus* 4886
- (E)-2-Octenyl acetate  
 secretions  
*Lincus* 4885  
*Lincus spursus* 4886
- (R,E)-5-(-)-(Oct-1-enyl)oxacyclopentan-2-one, pheromones, *Anomala* 4935
- (R,Z)-5-(-)-(Oct-1-enyl)oxacyclopentan-2-one  
 pheromones  
*Anomala* 4935  
*Anomala octiescostata* 1891
- Octochaetona surensis*, insecticides, effects 6377
- Octonoba sinensis*, morphology, silk 4891
- Octopamine**  
 effects  
*Locusta migratoria* 4951  
*Spodoptera litura* 7033
- Octyl butyrate**, attractants, *Macroductylus* 11730
- Ocypus*, biochemistry, secretions 4936
- Ocytata pallipes*  
 biology, life history 305  
 Europe 305  
 Germany 305  
 hosts, *Forficula auricularia* 305, 314
- Ocytata pallipes* cont.  
 rearing techniques 314
- Odonata**  
 Bangladesh 11372  
 distribution, India 11366  
 ecology 3081  
 habitats 1112  
 morphology 2873  
 Netherlands 1112  
 Norway 3081  
 phylogeny 2873
- Odonotopus varicornis*, physiology, reproductive organs 7088
- Odontellidae**, Canary Islands 11367
- Odontomachus**  
 biology, behaviour 6048-6049  
 physiology 6049
- Odontomelus**  
 East Africa 6988  
 taxonomy 6988
- Odontoptera**  
 morphology 3764  
 taxonomy 3764
- Odontopus nigricornis* (see *Probergrothius nigricornis*)
- Odontotaenius*, taxonomy 5801
- Odontotaenius floridanus*  
 Florida 5801  
 taxonomy, new species 5801
- Odontotermes**  
 cassava 4483  
 control, chemical control 4483  
 soil, Botswana 337  
 South Asia 11460
- Odontotermes bhagwati*, *Eucalyptus tereticornis*, Uttar Pradesh 2661
- Odontotermes brunneus*  
 biology, behaviour 727  
 forests, Tamil Nadu 727
- Odontotermes distans*, *Eucalyptus tereticornis*, Uttar Pradesh 2661
- Odontotermes feae*, *Eucalyptus tereticornis*, Uttar Pradesh 2661
- Odontotermes guptai*, *Eucalyptus tereticornis*, Uttar Pradesh 2661
- Odontotermes obesus*  
 biochemistry, chemical composition 6209  
*Eucalyptus tereticornis*, Uttar Pradesh 2661  
 insecticides, pathogenicity 6243  
 maize  
 Andhra Pradesh 7678  
 damage 7678
- Odontotermes redemanni*, *Eucalyptus tereticornis*, Uttar Pradesh 2661
- Odontotermes transvaalensis*  
 biology, environmental factors 2143  
 South Africa 2143
- Odontotermes wallonensis*  
 biochemistry, enzymes 9164  
 biology, behaviour 7369  
 India 7369
- Oebalus ornatus**  
 parasitoids 9726  
 predators 11742  
 rice, Colombia 9726
- Oebalus poecilus**  
 control, chemical control 1460  
 rice, Rio Grande do Sul 1460
- Oebalus pugnax**, sorghum, Texas 4431
- Oebalus ypsilone**  
 biology, development 3912  
 morphology, nymphs 3786  
 parasitoids 4439  
*Polygonum punctatum* 3912  
 rice, Rio Grande do Sul 4439
- Oecophoridae**, biology, behaviour 737
- Oecophylla**  
 ecology 670  
 mangoes, Western Australia 670
- Oecophylla longinoda**  
 coconuts, plantations, Tanzania 9915  
 interactions, *Pheidole megacephala* 9915  
 prey, *Pseudotheraptus wayi* 9915
- Oecophylla smaragdina**  
 cashews, orchards, Northern Territory 11921  
 prey, insect pests, cashews 11921
- Oedaleonotus enigma**  
 control, chemical control 8681  
 ecology, interspecific competition 8681
- Oedaleonotus enigma** cont.  
 lucerne, Utah 8681
- Oedaleus**, predators 274
- Oedaleus decorus**, ectoparasites 27
- Oedaleus decorus decorus**, Algeria 9362
- Oedaleus senegalensis**  
 Algeria 9362  
 biology, environmental factors 1976, 9339  
 Niger 1976  
 pathogens 4213  
 West Africa 10487
- Oedalus senegalensis**, ectoparasites 27
- Oedancala cladiumicola**, distribution, Turks and Caicos Islands 6099
- Oedemeridae**, forest trees, Chile 5629
- Oedipoda miniata**, Algeria 9362
- Oedipodidae**, Guangdong 7327
- Oedothorax apicatus**  
 biology, behaviour 3223  
 fields, Belgium 3223  
 insecticides, effects 7571  
 prey, *Lepidocyrtus lanuginosus* 7571  
 rearing techniques 7571
- Oedothorax fuscus**  
 biology, behaviour 3223  
 fields, Belgium 3223
- Oedothorax insecticeps** (see *Ummeliata insecticeps*)
- Oemona hirta**, detection 6109
- Oenocarpus mapora**, *Stenotarsus rotundus*, Panama 2686
- Oenochrominae**  
 Europe 6999  
 morphology, pupae 6999
- Oenopia conglobata**, *Oenopia impustulata*, differentiation 8312
- Oenopia impustulata**  
 distribution, Germany 8312  
*Oenopia conglobata*, differentiation 8312
- Oenopia quadripunctata**  
 biology, life cycle 3008  
 prey, *Tuberculatus nervatus* 3008
- Ogcodes**  
 biology, development 5154  
 distribution, North America 5154  
 hosts, *Anypaena californica* 5154
- Ogcodes borealis**  
 biology, development 5154  
 distribution, North America 5154  
 hosts, Araneae 5154
- Ogcodes pallidipennis**  
 biology, development 5154  
 distribution, North America 5154  
 hosts, Araneae 5154
- Oiketicus kirbyi**  
 biology, behaviour 7058  
 Costa Rica 7058  
 pheromones 7058
- Oil palms** (*Elaeis guineensis* and *E. oleifera*)  
 arthropod pests, monitoring 10895  
 extracts, pheromones, interactions 4622  
*Lincus tumidifrons*, Colombia 7867  
*Opsiphanes cassina*, Costa Rica 683  
*Oryctes rhinoceros*, Kerala 3581  
 pest control, India, reports 1782  
*Pleseobyras bicincta*, Peru 5573  
 Psychidae, Malaysia 6708  
*Pteroteion lauffella*, Cote d'Ivoire 1598  
*Rhynchophorus palmarum*  
 Colombia 2594  
 Costa Rica 682  
 Venezuela 5574, 7862  
*Rhynchophorus phoenicis*, Cote d'Ivoire 4622, 7627  
*Setothosea asigna*, Indonesia 7866  
 Tingidae, Latin America 4623
- Oils**  
 control  
*Anarsia lineatella*, stone fruits 3539  
 arthropod pests, almonds 6700  
*Lymantria dispar*, forest trees 2652  
 effects  
*Myzus persicae* 7531  
*Neoseiulus cucumeris* 11640
- Oilseed plants**  
 commodities, arthropod pests 12082  
 habitats, *Oxyopes*, Indian Punjab 9909



- Okra (bhendi) yellow vein mosaic**  
bigenimivirus, vectors, *Bemisia tabaci* 2541
- Okras** (*Abelmoschus esculentus*)  
*Amrasca biguttula*  
India 3716  
resistance 5515  
*Amrasca biguttula biguttula*, Indian Punjab 5514  
*Aphis gossypii* 6625, 11821  
*Bemisia tabaci*, Assam 2541  
*Dysdercus cardinalis*, Kenya 6408  
*Earias insulana* 11839  
*Earias vitella* 11965  
Gujarat 8748  
fields, *Amblyseius*, Bihar 5513  
*Helicoverpa armigera*  
Cote d'Ivoire 10682  
India 1521  
Hemiptera, Gujarat 5516  
insect pests, Andhra Pradesh 6624  
insecticides, residues 5512, 6624, 8616, 8749  
interactions, insecticides 11821  
*Nezara viridula*, South Carolina 4107  
Pentatomidae  
damage 10838  
Japan 10838  
*Tetranychus* 11830  
*Tetranychus ludeni*, Bihar 5513  
*Tetranychus macfarlanei* 11838
- Old fields**, arthropods, South Africa 7262
- Olea europaea*** (see Olives)
- Oleander** (see *Nerium oleander*).
- Oleic acid**, attractants, *Diabrotica virgifera* 7681
- Olethreutes flavifasciana***, taxonomy to, *Apotomis* 9064
- Oligochaeta**  
insecticides  
effects 3383, 6377, 7615  
toxicity 477  
predators 3050
- Oligomerism**, taxonomy, synonyms, *Pentamerism* 1830
- Oligomerism *shandongensis***  
*Celtis sinensis*, Shandong 1830  
taxonomy, new species 1830
- Oligomyrmex**  
cocoa, litter (plant), Sao Paulo 1624  
ecology, habitats 1624
- Oligonychus biharensis***, cassava 4483
- Oligonychus coffeae***  
cassava, Congo 6565  
control, chemical control 5619  
jute  
West Bengal 5619  
yield losses 5619  
predators 1620, 6565  
tea, West Bengal 5593
- Oligonychus gossypii***  
biology, environmental factors 9788  
cassava  
Africa 9788  
Congo 6565, 8714  
yields 8714  
predators 6565
- Oligonychus indicus***, predators 8381
- Oligonychus mangiferus***, mangoes, West Bengal 5558
- Oligonychus pratensis***  
biology  
behaviour 3996, 10618  
reproduction 9141  
insecticides, effects 10618  
maize 10618
- Oligonychus punicae***, acaricides, toxicity 9590
- Oligonychus zeae***  
control, chemical control 7675  
maize, Venezuela 7675
- Oligota**  
apples, orchards, South Africa 4548  
prey, *Panonychus ulmi* 4548
- Oligota fageli***  
apples, orchards, South Africa 5523  
pesticides, effects 5523
- Oligota kashmirica benefica***  
biology, behaviour 613-614  
ecology, population dynamics 5541  
grapes, habitats 5541
- Oligota kashmirica benefica* cont.**  
predators 613  
prey  
*Tetranychus* 613  
*Tetranychus kanzawai* 5541  
*Tetranychus urticae* 614  
*Pueraria lobata*  
habitats, Japan 614  
Japan 613
- Oligota yasumatsui***, biology, behaviour 613
- Olive oil**  
effects, insect pests 4792  
insecticides, residues 7567, 8808
- Olives** (*Olea europaea*)  
*Bactrocera oleae* 5577, 7868  
Algeria 11932  
Greece 6710  
Italy 8808, 11930  
*Calocoris trivialis*, Greece 1603  
commodities, insecticides, residues 5578, 12078  
*Euphyllura olivina*  
France 6711  
Tunisia 6711  
*Euphyllura straminea*, Turkey 1148  
*Euzophera pinguis* 5579  
extracts  
attractants, *Phloeotribus scarabaeoides* 4628  
effects, *Bactrocera oleae* 684  
*Hylesinus varius* 2596  
Spain 1602, 4626  
insect pests  
monitoring, traps 1294  
Spain 6709  
insecticides, residues 5578, 11930  
*Mytilaspis flava*, Algeria 2598  
orchards  
Araneae, Italy 11929  
Chrysopidae, Spain 4627  
*Gitona brasiliensis*, Chile 9918  
Hymenoptera, Spain 2078  
insects  
Italy 11933  
monitoring, traps 11933  
parasitoids, Spain 4626  
*Orthezia olivicola*, Chile 9918  
pest control 12098  
pesticides, effects 8807  
*Phloeotribus scarabaeoides*  
Morocco 2595  
Spain 2597  
Scolytidae, Spain 2078  
*Zeuzera pyrina*  
Egypt 1604, 2396  
Italy 11931
- Oman**  
fruits, *Bactrocera caryae* 9882  
Isopoda 2040
- Omethoate**  
control  
Acari, edible fungi 12050  
*Aorata scutellaris*, grapes 9861  
*Apion*, *Salix* 2669  
*Asterococcus muratae*, ornamental plants 8936  
Chrysomelidae, *Zanthoxylum* 11998  
*Etiella zinckenella*, *Ginkgo biloba* 11975  
insect pests, soyabeans 3494  
*Phyllocnistis citrella*, *Citrus* 1565  
*Phyllonorycter*, *Myrica* 657  
*Strigina bifida*, *Magnolia biloba* 5689  
*Zabrus tenebrioides*, cereals 1416  
detection, crops 9393  
effects  
*Chrysoperla carnea* 456  
*Halotydeus destructor* 3332  
rain 3332  
mixtures, effects, *Chrysoperla carnea* 456  
nontarget effects, predatory insects 1633  
residues, olives 11930  
resistance  
*Aphis gossypii* 10914  
*Eumeta variegata* 10541  
toxicity, *Diaphorina citri* 9886
- Omigrogiton insularis***  
distribution, Indonesia 5783  
Indonesia 5783
- Omiodes indicata***  
soyabeans  
Jiangsu 11768  
resistance 6538
- Ommatissus binotatus***  
biology 5386  
control 5386  
crops, Middle East 5386
- Ommatoilus moreleti***  
Australia 6163  
Diplopoda, interactions 11352  
predators 6163  
South Australia 11352
- Omocestus rufipes***, Algeria 9362
- Omocestus ventralis*** (see *O. rufipes*)
- Omocestus viridulus***  
grasses 407  
heavy metals, effects 407  
physiology  
development 407  
nervous system 123, 9193-9194
- Omphalotus illudens***, *Oxyporus stygicus* 1738
- Oncastichus goughi***  
*Chamelaucium uncinatum*, California 10997  
ecology, population dynamics 10997  
monitoring, traps 10997
- Onchorhynchus***, pesticides, effects 3356
- Oncideres albomarginata chamela***, food plants, Mexico 7932
- Oncideres captiosa***  
food plants, damage 6287  
Rio Grande do Sul 6287
- Oncideres cingulata***  
biology 11983  
trees  
damage 11983  
Missouri 11983
- Oncideres dejeanii***  
food plants, damage 6287  
Rio Grande do Sul 6287
- Oncideres impluviata***  
food plants, damage 6287  
Rio Grande do Sul 6287
- Oncideres saga saga***  
food plants, damage 6287  
Rio Grande do Sul 6287
- Oncideres ulcerosa***  
food plants, damage 6287  
Rio Grande do Sul 6287
- Oncol** (see Benfuracarb)
- Oncopeltus fasciatus***  
biochemistry, glycosides 5898  
distribution, Turks and Caicos Islands 6099  
growth regulators, effects 10671  
morphology, sense organs 4884  
physiology, development 10148
- Oncopera***, pathogens 4140
- Oncopera intricata***  
pastures, Tasmania 5445  
pathogens 5445
- Oncopera rufobrunnea***  
pastures, Tasmania 5445  
pathogens 5445
- Oncopsis flavicollis***, USSR 1840
- Oncopsis subangulata***, USSR 1840
- Oncopsis tsejensis***  
*Alnus incana*, USSR 1840  
taxonomy, new species 1840
- Oncorhynchus kisutch***  
insecticides, residues 7616  
organochlorine compounds, effects, models 3353
- Oncorhynchus mykiss***, pesticides, toxicity 1343, 5326
- Oncorhynchus tshawytscha***  
insecticides, residues 7616  
organochlorine compounds  
effects, models 3353  
residues 4307
- Onions** (*Allium cepa*)  
arthropod pests 883  
books 883  
cell culture, insecticides, effects 7595  
commodities  
insecticides, residues 7573  
pesticides, residues 7572, 12085  
*Delia antiqua*  
Iran 3514



**Onions cont.**

- Delia antiqua* cont.  
Shanxi 11805  
insecticides, effects 9793  
integrated pest management, New York 9842  
*Lilioceris merdiger*  
Poland 1500  
resistance 1500  
odours, effects, *Myzus persicae* 7981  
pest control  
China 10797  
Poland 1501  
pesticides, effects 6572-6573  
*Plutella xylostella*, China 3420  
*Romalea guttata* 2921  
*Spodoptera exigua*, Taiwan 6327  
*Systema argentinensis*, Argentina 182  
*Thrips tabaci*  
Germany 10796  
Haryana 2521  
India 7765  
Maharashtra 2520  
Parana 4504-4505  
Quebec 8721

**Oniscidea**

- ecology, habitats, diversity 4021  
habitats, Slovakia 4021

**Oniscus asellus**

- Acer campestre* 10502  
cadmium, toxicity 9543  
heavy metals, effects 10502  
physiology, nervous system 5919  
taxonomy 3758

**Onitis**

- ecology, competition 4024  
South Africa 4024

**Ononis**, Lepidoptera, Russia 6821

- Ononis antiquorum*, *Therioaphis*, Israel 5398

**Ononis pubescens**, *Therioaphis*, Israel 5398

- Ononis spinosa* subsp. *antiquorum*, *Coleophora cartilaginella*, Spain 584

**Onopordum**, natural enemies, Mediterranean Region 6856

- Onopordum illyricum*, *Larinus cynarae*, France 12053

**Ontholestes**, biochemistry, secretions 4936**Onthophagus gazella**

- biology 7316  
ecology, competition 4024  
rearing techniques 7316  
South Africa 4024

**Ontsira anopliphorae**

- Citrus*, habitats, Kyushu 9062  
hosts, *Anopliphora malasiaca* 9062  
morphology 9062  
taxonomy, new species 9062

**Onychiurus arcticus**

- cold resistance 4006  
physiology, water relations 7027

**Onychiurus armatus**

- biology, behaviour 3956  
control, chemical control 11954  
fungi, interactions 1072  
*Mortierella isabellina* 3956  
sugarbeet, Netherlands 11954

**Onychiurus flavescens**, forests, Honshu 9989**Onychiurus furcifer**

- fungi 10268  
*Hypogastrura denticulata*, interspecific competition 10268

**Ooencyrtus**

- Citrus*, orchards, South Africa 1574  
control, *Tessaratomia papillosa*, subtropical tree fruits 11905  
hosts  
*Amblypelta lutescens* 790  
*Papilio demodocus* 1574  
*Murraya paniculata*, habitats, Queensland 790  
subtropical tree fruits, orchards, Guangxi 11905

**Ooencyrtus ennomophagus**

- biology, life history 7354  
hosts, *Dendrolimus punctatus* 7354  
Zhejiang 7354

**Ooencyrtus kuvanae**

- biology, behaviour 10372  
hosts, Lasiocampidae 10372

**Ooencyrtus nezarae**

- biology, behaviour 8295  
ecology, interspecific competition 8295  
hosts, *Riptortus clavatus* 8295

**Ooencyrtus papilionis**

- biology, environmental factors 5182  
hosts, *Pyrilla perpusilla* 5182

**Ooencyrtus pityocampae**

- hosts, *Thaumetopoea wilsoni* 1696  
morphology 1696  
*Pinus*, forests, Israel 1696

**Ooencyrtus utetheisae**, hosts, *Pseudotherap-  
tus wayi* 1222**Oomyzus gallerucae**

- control, *Pyrhalta luteola*, *Ulmus* 745,  
4707-4708, 4711

**Ulmus**

- California 4711  
habitats, California 745

**Oomyzus scaposus**

- crops, habitats, Delhi 4101  
hosts, *Coccinella septempunctata* 4101

**Oomyzus sokolovskii**, growth regulators,  
effects 7623**Ootypus globosus**

- pathogens 1257  
Spain 1257

**Opatroides frater**, groundnuts, Gujarat 11940

- Opatrum sabulosum*, sugarbeet, Czech Republic 5588

**Opeas gracile**, morphology 9457**Opeia obscura**

- biology, behaviour 3941  
control, chemical control 5261  
grasslands

**Arizona** 5261**Colorado** 3941**Operculina tuberosa**, *Agrius cingulatus*,  
Hawaii 4753**Operophtera brumata**

- biology 11917  
control

- biological control 1831  
reviews 9525  
chemical control 11917

**Czech Republic** 2107

- genetics, genetic variation 4696  
hazelnuts

**America** 9907**damage** 11917**Europe** 9907**Poland** 11917**heavy metals, effects** 2107**monitoring, traps** 2664**natural enemies** 9525**North America** 9525**parasitoids** 1831, 2107**predators** 11980**Quercus**, Belgium 4696**Quercus robur**, France 2664**UK** 11980**Ophelosia**

- fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640

**taxonomy** 9091**Ophelosia charlesi**

- hosts, *Pseudococcidae* 9091  
taxonomy, new species 9091

**Ophiomyia phaseoli**

- control  
chemical control 10770, 11776  
integrated control 3499

**peas**, Indian Punjab 11776**Phaseolus** 10770**Malawi** 3499**soil fertility, effects** 3499**soyabeans, resistance** 6538**Vigna radiata**, Uttar Pradesh 10780**Ophiomyia spencerella**

- control, integrated control 3499  
*Phaseolus*, Malawi 3499

**Phaseolus vulgaris**, Rwanda 590**soil fertility, effects** 3499**Ophionea ishi**

- prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482

**Ophiostoma brunneo-ciliatum**, Scolytidae,  
interactions 2695**Ophiostoma canum**

- vectors  
Curculionidae 3284

**Ophiostoma canum** cont.

- vectors cont.  
*Pissodes piceae* 6024

**Ophiostoma clavigerum**, vectors, *Den-  
droctonus ponderosae* 10962**Ophiostoma himal-ulmi**, vectors, Scolytidae  
6765**Ophiostoma ips**

- vectors  
Curculionidae 3284

**Ips pini** 10966**Pissodes piceae** 6024**Ophiostoma montium**, vectors, *Den-  
droctonus ponderosae* 10962**Ophiostoma nigrocarpa**, vectors, *Ips pini*  
10966**Ophiostoma novo-ulmi**

- vectors  
*Scolytus* 8883  
*Scolytus laevis* 747

**Ophiostoma piliferum**, vectors, Curculion-  
idae 3284**Ophiostoma pseudotsugae**, vectors, *Den-  
droctonus pseudotsugae* 8995**Ophiostoma ulmi**

- vectors  
*Pyrhalta luteola* 8881  
*Scolytus* 8883

**Scolytus pygmaeus** 9517**Ophiostomataceae**, vectors, *Hylobius abietis*  
4734**Ophraella artemisiae**, Asteraceae 1956**Ophraella conferta**, Asteraceae 1956**Ophraella notulata**

- food plants 1007  
genetics 1007

**Ophryocystidae**, hosts, *Leptothorax* 9411**Opiinae**, taxonomy 1812**Opiliones**

- attractants 1650  
distribution

**Europe** 1142**UK** 1793**ecology, habitats** 1126**Germany** 1650**grasslands, Germany** 1126**morphology, size** 5828**taxonomy** 1142**Opisina arenosella****coconuts**

- Gujarat 5576, 11927  
Karnataka 9917  
Kerala 1600

**control**

- biological control 11927  
chemical control 5576

**ecology, population density, statistical  
analysis** 9917**ectoparasites** 9384**natural enemies** 1991**Oryctes rhinoceros**, interactions 5873**parasitoids** 1600**physiology, reproductive organs** 7087**Opius**

- control, insect pests, rice 9724  
hosts

**Hydrellia wirthi** 3475**Liriomyza** 4516**Liriomyza trifolii** 298**lettuces, fields, Arizona** 4516**rice, fields, Colombia** 9724**Taiwan** 298**taxonomy** 1812**Opius concolor**

- hosts, *Bactrocera oleae* 3371  
pesticides, effects 3371

**Opius dimidiatus**

- biology, behaviour 11424  
hosts, *Liriomyza trifolii* 11424

**Opius dissitus**

- biology, environmental factors 2138  
hosts, *Liriomyza trifolii* 2138

**Opius downsi**

- Crataegus monogyna*, habitats, Washing-  
ton 2746

**hosts, Rhagoletis pomonella** 2746**Opius fletcheri**

- Hawaii 7521  
hosts, *Bactrocera cucurbitae* 7521

**insecticides, effects** 7521



**Opius phaseoli**

- control, *Ophiomyia*, *Phaseolus* 3499
- Phaseolus*, fields, Malawi 3499

**Opodiphthera eucalypti**

- cell lines, pathogens 5205
- pathogens 366

**Opomyza florum**

- biology 2412
- wheat
  - Italy 2412
  - UK 7652

**Opomyzidae**, taxonomy 8073**Opsiphanes cassina**

- oil palms, Costa Rica 683
- sampling 683

**Opuntia**

- Diaspis echinocacti*, Queensland 4847
- habitats, *Exothorhis echinocactii*, Queensland 4847

- Zophodia prodenialis*, Arkansas 1758

**Opuntia fragilis**, insects, Nebraska 6858**Opuntia pelifera**, Coreidae, Mexico 11010**Opuntia stricta**, *Cactoblastis cactorum* 11021**Oracella acuta**

- insecticides, resistance 7945
- Pinus taeda*
  - Louisiana 7945
  - outbreaks 7945

**Oranges** (*Citrus sinensis*)

- Aleurocanthus spiniferus*, Hunan 3233
- Aonidiella aurantii*
  - California 665
  - South Africa 7842
- Aonidiella citrina*, Italy 11899
- arthropod pests, Italy 11900
- Brevipalpus phoenicis* 4594
- Sao Paulo 4595
- Ceratitidis capitata*, Greece 11893
- Chrysomphalus aonidum*, Hunan 3557
- Cicadellidae, Turkey 10880
- commodities
  - insecticides, residues 5734
  - pesticides, residues 7572
- Dialeurodes citri*, Spain 6685
- Diaphorina citri*, Haryana 8783
- Diaspididae, Spain 6686
- Dorcaserus barbatus*, Argentina 4689
- Eutetranychus orientalis*
  - Rajasthan 9883
  - variatal susceptibility 9883
- Frankliniella bispinosa*, Florida 259
- Hemiptera, Rio de Janeiro 4586
- Iridomyrmex*, New South Wales 11892
- odours, effects, *Atta sexdens* 409
- orchards
  - Aphytis hispanicus*, Sao Paulo 7846
  - parasitoids, Hunan 3233
- Panonychus citri* 2131
- Parlatoria*, Israel 7221
- Parlatoria cinerea*, Sao Paulo 7846
- pesticides, residues 9394
- Phyllocnistis citrella*, Guangxi 3071
- Phyllocoptruta oleivora*, Florida 4589
- Planococcus citri* 5553
- plantations
  - Chilocorus bijugus*, Guizhou 7851
  - parasitoids, Hunan 3557
  - pollen, *Euseius mesembrinus* 3220
  - Proprioseiopsis*, Florida 5520
  - Unaspis yanonensis*, Guizhou 7851

**Orasema**, hosts, Formicidae 9073**Orasema pireta**, taxonomy, new species 9073**Orasema salebrosa**, taxonomy, new species 9073**Orasema simplex**, taxonomy, new species 9073**Orasema worcesteri**, taxonomy 9073**Orasema xanthopus**, taxonomy 9073**Orasema xanthopus group**, taxonomy 9073**Orchards**

- Ancistrocerus gazella*, New Zealand 5254
- arthropods
  - conferences 879
  - Slovakia 7802
  - Switzerland 2547
- Cantharidae, Hungary 7803
- Diptera, Germany 541, 1083
- Drosophila melanogaster*, Moldova 11276

**Orchards cont.**

- habitats
  - Acari, Yugoslavia 1531
  - Vesputa germanica*, Greece 4386
- Heteroptera, Yugoslavia 11842
- insect pests, Norway 1391
- integrated pest management, reviews 399
- pest control, reviews 643, 668
- Phytoseiulus persimilis*, South Africa 11841
- predators, Spain 2131
- predatory arthropods, Switzerland 8750
- soil, insecticides, degradation 2365
- Tortricidae, New Zealand 3310, 3536, 5254

**Orchesella cincta**

- cadmium, toxicity 9543
- physiology, muscles 10179

**Orchesella villosa**, biology, environmental factors 239**Orchidaceae**

- books 2728
- Diptera, pollination 2728
- Formicidae, interactions 2728
- pests, Ryukyu Archipelago 7977
- Stethopachys formosa*, Australia 12039
- Orchidophilus*, taxonomy 12040

**Orchidophilus aterrimus**, distribution, Japan 12040**Orchidophilus ran**

- distribution, Japan 12040
- taxonomy, new species 12040

**Oreina alpestris variabilis**, genetics 1957**Oreina bifrons**, genetics 1957**Oreina cacaliae**

- Adenostyles alliariae* 998
- biochemistry, pyrrolizidine alkaloids 998

**Oreina elongata**

- biochemistry, secretions 214
- biology, behaviour 214
- food plants 214

**Oreina gloriosa**

- biochemistry, pyrrolizidine alkaloids 998
- genetics 1957

**Oreina speciosa**, genetics 1957**Oreina speciosissima**, genetics 1957**Oreina variabilis** (see *O. alpestris variabilis*)**Oreochromis hornorum**, insecticides, toxicity 8521**Oreochromis mossambicus**, insecticides, effects 8519, 11620**Oreochromis niloticus**

- insecticides
  - residues 2359
  - toxicity 8520

**Oreochromis niloticus niloticus**, insecticides, effects 2282**Oreochromis niloticus × Oreochromis aureus**, pesticides, effects 4288**Organic acids**, effects, *Spodoptera litura* 5281**Organic compounds**

- degradation 8473
- toxicity, aquatic organisms 2304

**Organic farming**, effects, Carabidae 8375**Organic nitrogen compounds**, residues,

- agricultural products, analysis 4807

**Organochlorine compounds**

- analysis 1383
- determination 10643
- effects, *Onchorhynchus* 3356
- marine environment, determination 2383
- residues
  - aquatic organisms 471, 2353, 4322
  - atmosphere, analysis 1184
  - fishes 4307, 9611, 11637
  - food 467
  - foods 5335
  - Gadus morhua* 5343
  - man 8564
  - meat 5336
  - Perna viridis* 10606
  - Pinnipedia 1353
  - Pipistrellus pipistrellus* 466
  - soil 2355
  - water 1383
  - toxicity, *Tineola bisselliella* 526

**Organochlorine insecticides**

- air pollution, Czech Republic 7607
- effects, *Onchorhynchus* 3356
- mode of action 2273

**Organochlorine insecticides cont.**

- nontarget effects
  - Araneae 6169
  - Mytilus edulis* 8548
- residues
  - aquatic environment 8595
  - commodities 10575
  - determination 11402
  - eggs 10567
  - fishes 3355, 11673
  - groundwater 8583
  - human milk 6350
  - man 7561
  - marine environment 3380
  - Phoca groenlandica* 6354
  - rivers 3355
  - seafoods 10330
    - analysis 10330
  - sediment 484, 11673
  - soil, extraction 9646
  - toxicity, *Apis mellifera* 3361

**Organochlorine pesticides**

- analysis 10521
- effects, Chiroptera 3357
- extraction 2055, 10357
- medicinal plants, residues, determination 7983
- residues 4311
  - agricultural products, analysis 4807
  - animal products 2767
  - birds 2328, 4311
  - cattle 3388
  - cod liver oil 3367
  - drinking water, extraction 7609
  - Falco naumanni* 3382
  - feeds 9617
  - fishes 3393
  - human milk 11654
  - lakes, sediment 6380
  - Lutra lutra* 5324, 8546
  - marine environment 3380
  - medicinal plants 7983
  - Mustela lutreola* 3368
  - oysters 4296
  - rivers 2382, 3400, 4333, 7611
  - Tachylepus tridentatus* 8558
  - water, determination 7611

**uptake, plants** 7494**Organonitrogen pesticides**, degradation,

- water 10638

**Organophosphate insecticides**

- control, *Plutella xylostella*, cabbages 1504, 10801
- mode of action 2273
- nontarget effects
  - man 1372
  - Trichapion lativentre* 6855
- residues, cereals 11712
- resistance
  - Heliothis virescens* 4256, 5296
  - Myzus nicotianae* 6321
  - Neoseiulus longispinosus* 449
  - Schizaphis graminum* 4978

**toxicity**

- Apis mellifera* 3361
- Stethorus punctum* 10581

**Organophosphate pesticides**, effects, rats 4309**Organophosphorus compounds**

- degradation, water 4240
- effects
  - chicks 443
  - small mammals 1376
- residues, meat, determination 4793
- resistance, *Frankliniella occidentalis* 4977
- toxicity, rats 10578

**Organophosphorus insecticides**

- control
  - Antigastra catalaunalis*, sesame 7874
  - Coleoptera, *Plectorhynchus mediterraneus*, commodities 8991
  - Cydia nigricana* 9526
  - insect pests
    - forest trees 1644
    - wheat 11724
  - degradation
    - soil 1380
    - water 4240
  - effects
    - birds 10583



**Organophosphorus insecticides cont.**  
effects cont.*Plutella xylostella* 7542

rats 6360

mixtures

control

*Helicoverpa armigera* 10682*Mylokerinus aurolineatus*, tea 9933

nontarget effects

beneficial insects 6522

rabbits 3385

residues

commodities 10575

determination 11402

eggs 10567

fruits 642

rivers 11677

resistance

*Anthonomus grandis* 9958*Aonidiella* 9890*Aonidiella aurantii* 6680*Aphis gossypii* 8507, 10551*Bemisia tabaci* 9561, 10833*Heliothis virescens* 5111*Spodoptera exigua* 6327

synergists 8507

toxicity

rats 2310

*Steinernema carpocapsae* 7583**Organophosphorus pesticides**

degradation, water 10574, 10638

determination 7572, 10356

effects

mammals 6366

membranes 9550

residues

agricultural products, analysis 4807

air 8592

analysis 2292

cereals, commodities 8577

crops 468

determination 468

environment 11664

honey, analysis 11662

**Organothiophosphate insecticides, usage,**  
Argentina 3298**Organo tin compounds, residues, wheat**  
1388**Orgilinae, taxonomy** 9095**Orgilus, hosts, Antaeotrica** 7913**Orgilus lepidus**hosts, *Phthorimaea operculella* 1316

insecticides, toxicity 1316

**Orgyia, pheromones** 518**Orgyia leucostigma**

biochemistry, membranes 10162

biological control agents, evaluation 9528

**Orgyia pseudotsugata**

biochemistry

membranes 10162

proteins 991

control, mating disruption 4718

forest trees, British Columbia 6800

pathogens 2163, 4156, 7443-7444

pheromones 991

**Pinopsida**

British Columbia 4718

damage 8930

outbreaks 8930

Utah 8930

USA 4156

**Orgyia vetusta**

biology, behaviour 4772

ecology 6192

population dynamics 4772, 12004

*Lupinus arboreus*, California 4772, 6192, 12004, 12052

predators 4772, 6192

**Oribatei (see Cryptostigmata)****Oribatida (see Cryptostigmata)****Oribatidae**

ecology, environmental factors 3641

*Quercus coccifera*, litter, Greece 3641**Oribatula tibialis, Pinguicula longifolia,**  
interactions 8973**Oriental Region***Aphytis* 7284

Coraebini 11129

*Drosophila immigrans* group 10109

Flatidae 49

**Oriental spruce (see Picea orientalis)***Organum majorana*, insect pests, Florida 6832**Orius**

apples, orchards, South Africa 4548

aubergines, fields, Honshu 9814

control, *Thrips palmi*, evaluation 7796

cowpeas, fields, Kenya 6417

ecology, population dynamics 2576, 6417

insecticides, effects 5414, 6522

lucerne

fields

California 4661

Czech Republic 6522

maize, fields, Egypt 5414

pesticides, effects 2576

prey

*Frankliniella occidentalis* 8805*Megalurothrips sjostedti* 6417*Panonychus ulmi* 4548*Spodoptera exigua* 5414

rearing techniques 11541

strawberries, greenhouses, Germany 10863

sunflowers, fields, Israel 8805

taxonomy 5813, 6966

watermelons, fields, Honshu 2576

**Orius albidipennis**

biology

behaviour 6180

environmental factors 6180

reproduction 8390

control, *Frankliniella occidentalis* 6180

cotton

fields

Egypt 1633

Kenya 1626

distribution, Spain 6966

pesticides, effects 1633

prey

arthropod pests 8390

*Helicoverpa armigera* 1626**Orius horvathi, prey, Dasineura gleditchiae**  
5155**Orius insidiosus**

biology

behaviour 6180

environmental factors 6180

*Capsicum annuum*, Canada 2537control, *Frankliniella occidentalis* 6180, 11541

cotton, fields, Texas 4670

crops, fields, Maryland 9755

ecology, population dynamics 2537, 9755

maize, fields, habitats, Maryland 5424

plant growth regulators, effects 11640

prey

*Frankliniella occidentalis* 321*Helicoverpa zea* 4670, 9715*Ostrinia nubilalis* 5424

rearing techniques 321

sampling 2537

sorghum, fields, Arkansas 9715

**Orius laevigatus**

biology, environmental factors 2008

control, *Frankliniella occidentalis*, fruit 625

cotton, fields, Egypt 1633

distribution, Spain 6966

fruit vegetables, greenhouses, UK 625

pesticides, effects 1633

prey, *Frankliniella occidentalis* 6664

strawberries, fields, Spain 6664

**Orius lindbergi, distribution, Spain** 6966**Orius majusculus**

biology

behaviour 6180

environmental factors 6180

control

*Frankliniella occidentalis* 6180*Gerbera jamesonii* 1714

distribution, Spain 6966

**Orius minutus**

crops, habitats, Japan 5813

ecology 11842

morphology 5813

orchards, Yugoslavia 11842

prey

arthropod pests 5813

*Dasineura gleditchiae* 5155*Eupoecilia ambiguella* 4577**Orius minutus cont.**

vineyards, Germany 4577

**Orius nagaii**

crops, habitats, Japan 5813

morphology 5813

prey, arthropod pests 5813

taxonomy, new species 5813

**Orius niger**

distribution, Spain 6966

prey

Aphididae 11869

*Dasineura gleditchiae* 5155

soybeans, Yugoslavia 6536

Yugoslavia 11869

**Orius pallidicornis, distribution, Spain** 6966**Orius sauteri**

apples, orchards, China 644

bacterial toxins, effects 311

Beijing 233

biology

behaviour 7754

environmental factors 233, 7234

cover crops, effects 644

crops, habitats, Japan 5813

diets 10335

ecology

population density 644

population dynamics 7759

morphology 5813

potatoes

fields, Hokkaido 7754

habitats, Hokkaido 7759

prey

Aphididae 7759

*Aphis gossypii* 10335

arthropod pests 5813

insect pests 7754

*Myzus persicae* 7234*Panonychus ulmi* 644*Tetranychus urticae* 311**Orius similis**

cotton, fields, Hubei 7887

ecology, distribution 7887

prey, *Pectinophora gossypiella* 7887**Orius thripoborus**

cotton, fields, Kenya 1626

prey, *Helicoverpa armigera* 1626**Orius tricolor**

biology

behaviour 212, 6180

environmental factors 6180

*Capsicum annuum*, Canada 2537control, *Frankliniella occidentalis* 6180, 11541

cotton

fields

Arizona 712

Texas 4670

ecology, population dynamics 2537

greenhouse crops, Ontario 11541

hops, fields, Washington 6834

irrigation, effects 8679

lucerne, fields, Manitoba 8679

prey

*Helicoverpa zea* 4670

Hemiptera 9744

insect pests 712

*Pectinophora gossypiella*, detection 6127*Phorodon humuli* 6834

sampling 2537

**Orixia japonica, extracts, effects, Papilio**  
10676**Ormia ochracea (see Euphasiopteryx ochracea)****Ormyridae**

ecology 1967

*Ficus*, South Africa 1967**Ormyrus gratus***Centaurea*, Europe 1225hosts, *Isocolus* 1225**Ormyrus orientalis**hosts, *Melanagromyza obtusa* 11780

pigeon peas, fields, Kerala 11780

**Ormyrus punctiger**hosts, *Dryocosmus kuriphilus* 10366

Korea Republic 10366

**Ornamental bulbs**

arthropod pests 881

South Africa, books 881



**Ornamental conifers**

- Coleoptera, Switzerland 12031
- Hemiptera
  - Hungary 8901
  - varietal susceptibility 8901

**Ornamental crops, *Frankliniella occidentalis*, Europe 7167****Ornamental plants**

- Agromyzidae, Europe 2212
- arthropod pests
  - Austria 10465
  - Germany 10990
- Asterococcus muratae*, Shaanxi 8936
- Coccoidea, Sicily 12023
- Cryptostigmata 6976
- Frankliniella occidentalis* 3305
  - Czech Republic 6807
  - Missouri 396
- insect pests
  - books 3737
  - control, chemical control 3664
  - USA 3737
- Monolepta australis*, Northern Territory 2650
- nurseries, arthropod pests, California 9999
- pest control
  - Germany 3317
  - North Carolina 12021-12022
  - reviews 784
  - Washington 3663
- pests 11063
  - British Virgin Islands 6806
- Tetranychus urticae*, New York 10980, 12024
- Thysanoptera, Georgia 787
- Ornamental woody plants**
  - Enarmonia formosana*, Washington 1547
  - Eriophyoidea, galls 1648
  - insect pests
    - damage 12025
    - Virginia 12025
  - insecticides
    - phytotoxicity 4277
    - toxicity 12030
  - integrated pest management, USA, books 6928
  - Macrotoma palmata*, Egypt 8617
  - Otiorynchus sulcatus*, Poland 6812
  - Quadraspidiotus perniciosus*, Switzerland 12030
  - Tarsonemus*, Korea Republic 12026
- Orobanche***, control, biological control 8003, 8007, 8035
- Orseolia oryzae***
  - biotypes 2460
  - control
    - chemical control 5440, 8662, 9722
    - cultural control 10729, 10734
  - ecology, population dynamics 3453, 10729
  - fertilizers, effects 3465
  - forecasting 7703
  - natural enemies 10729
  - parasitoids 4438, 5440
  - rice
    - Andhra Pradesh 2460
    - China 7703
    - Fujian 8662, 10729
    - galls 5440
    - Guangdong 3453
    - Guangxi 10734
    - India 2443
    - Madhya Pradesh 9736
    - Maharashtra 3465
    - Orissa 5440, 9722
    - resistance 574, 2443, 2460-2461, 6486, 6500-6501, 7716, 9736
    - Sri Lanka 4438
- Orseolia oryzivora***
  - parasitoids 8092
  - rice
    - Nigeria 2452
    - resistance 2452
- Orthacris maindroni***
  - physiology, nutrition 582
- Tephrosia purpurea* 582
- Orthaga exvinacea***
  - cashews
    - resistance 10894
  - Tamil Nadu 10894

***Orthaltica***

- Mexico 11089
- taxonomy 11089

***Orthellia* (see *Neomyia*)*****Orthezia annae***

- Atriplex polycarpa*, California 6185
- predators 6185

***Orthezia olivicola***

- olives, Chile 9918
- parasitoids 9918

***Orthezia praelonga***

- Aleyrodidae, biological competition 4586
- food plants, Rio de Janeiro 4384
- oranges, Rio de Janeiro 4586

***Orthochthia*, taxonomy 918*****Orthomorpha gracilis* (see *Oxidus gracilis*)****Orthoptera**

- Algeria 275, 9362
- control, chemical control 6480
- ecology 3009
- Eucalyptus*
  - damage 5638
  - Northern Territory 5638
- Europe 10321
- genetics, mitochondrial DNA 11270
- grasslands, Germany 3174
- Korea Republic 10086
- morphology 2873
- phylogeny 2873
- Pinus rigida*, forests, New Jersey 9984
- Poland 3009
- predators 275, 3063
- rice, Meghalaya 6480
- taxonomy 10321

***Orthosia gothica***

- biochemistry, enzymes 11179
- biology, environmental factors 9327
- France 9327

***Orthosia hibisci*, biology, environmental factors, models 7164*****Orthosia incerta***

- biology, environmental factors 9327
- France 9327

***Orthotomicus erosus***

- pathogens 4153
- Pinus*, South Africa 760
- South Africa 4153

***Orthotylus***

- attractants 6396
- Hawaii 6396

***Oryctes monoceros***

- Cote d'Ivoire 4371
- pheromones 4371

***Oryctes rhinoceros***

- biochemistry, enzymes 5873
- coconuts
  - Andaman and Nicobar Islands 1599
  - damage 1599
  - India 8453
  - Tamil Nadu 3582-3583

- control
  - biological control 1599, 3581, 8453
  - trapping 3583
- genetics, chromosomes 1259, 10443
- Lepidoptera, interactions 5873
- monitoring, traps 3582
- oil palms, Kerala 3581
- pathogens 1259, 7467, 8860, 10443

***Oryza latifolia*, *Nilaparvata lugens*, resistance 5435, 7696*****Oryza minuta*, *Nilaparvata lugens*, resistance 5435*****Oryza officinalis*, *Nilaparvata lugens*, resistance 5435, 7696*****Oryza punctata*, *Nilaparvata lugens*, resistance 7696*****Oryza sativa* (see *Rice*)*****Oryzaephilus***

- pheromones 7317
- synthesis 10674

***Oryzaephilus mercator***

- nuts, commodities 2770
- pathogens 2770

***Oryzaephilus surinamensis***

- biochemistry, cuticle, hydrocarbons 11229
- biology, environmental factors 239, 837, 6037
- cereal grains
  - Belgium 10035
  - South Carolina 4809

***Oryzaephilus surinamensis* cont.**

- control
  - chemical control 4802, 6881
  - integrated control 9007
- flour mills, Italy 6878
- growth regulators, toxicity 1332
- monitoring 4808
- physiology
  - environmental factors 11229
  - enzymes 9163
- plant extracts
  - effects 9163
  - toxicity 6864
- predators 320
- terpenoids, toxicity 8479
- wheat
  - commodities 6864
  - Kansas 4808
  - Pakistan 9007
  - UK 4802

***Oryzias latipes***

- insecticides, effects 2302
- pesticides
  - effects 1378, 5331
  - toxicity 7596

***Oscinella***

- biology 6505
  - behaviour 3935
- grasslands, UK 3935
- Lolium perenne*, UK 6505
- natural enemies 6505
- parasitoids 5452

***Oscinella frit***

- cereals, resistance 9669
- control, chemical control 551, 4414, 8649
- crops, Sweden 1300
- grasses, Denmark 5452
- maize
  - damage 8649

- Germany 4414
- Poland 551, 3438, 8649
- resistance 3438
- yield losses 551
- Poaceae 1467
- wheat, resistance 2413

***Oscinella hortensis*, grasses, Denmark 5452*****Oscinella pusilla***

- grasses, Denmark 5452
- wheat, resistance 2413

***Oscinella vastator*, grasses, Denmark 5452*****Osiphanes cassina*, biology, behaviour 3961*****Osiphanes tamarindi*, biology, behaviour 3961*****Osmanthus fragrans*, *Panonychus citri*, Hubei 8941*****Osmia tricornis***

- biology, life cycle 5148
- natural enemies 5148
- plants
  - pollination 5148
- Spain 5148

***Osmoderma eremicola*, physiology, cold tolerance 4908*****Ostrinia furnacalis***

- biochemistry, haemocytes 8168
- biology
  - behaviour 7201, 9954
  - dispersal 10255
  - environmental factors 310
  - life tables 1175
- control, integrated control 5264
- cotton
  - China 10919
  - resistance 9954
  - yield losses 10919
- fertilizers, effects 552, 10718
- genetics, chromosome aberrations 1964
- Hebei 10255
- Jiangsu 310
- maize 552
  - Taiwan 2421, 10718
- parasitoids 310, 2421, 9094
- pathogens 2179, 9482, 11521, 11531
- pheromones 7201
- physiology, diapause 9168
- plant extracts, effects 12043
- radiation, effects 1964

***Ostrinia nubilalis***

- biochemistry, enzymes 88, 7043



***Ostrinia nubilalis* cont.**

- biological control agents, evaluation 9482, 11731
  - biology
    - behaviour 3618, 4423, 5042, 8645, 10716, 11303
    - development 10710
    - diapause, models 4060
  - Capsicum annuum*
    - damage 11832
    - Ohio 11832
    - China 7509
    - control 10708-10709, 11732
      - biological control 2435, 4424, 6459-6460, 9694
      - chemical control 11832
      - integrated control 9695
  - cotton, Jiangsu 3618
  - Czech Republic 517
  - ecology
    - population dynamics 9784
      - models 3086, 11359
  - fertilizers, effects 3441
  - food plants 10716
  - genetics, chromosomes 5009
  - growth regulators, effects 7622
  - insecticides, toxicity 9579
  - kairomones 2116, 3231
  - maize 4423, 9695, 11303
    - damage 2429
    - Egypt 3441
    - Germany 10705
    - Hungary 6459
    - Illinois 4424
    - Iowa 2435
    - Israel 10710
    - Italy 5419, 9694
    - Jiangsu 7682
    - Maryland 5424, 11732
    - Minnesota 10708-10709
    - Ontario 8645
    - Pennsylvania 11731
    - Quebec 4411
    - resistance 559, 3441, 6459, 7501, 8645, 8652, 9697, 9709-9710, 9712-9713, 10705
    - yield losses 4411
    - Yugoslavia 6460, 6464
  - Maryland 4375
  - Minnesota 9579
  - Moldova 9417
  - monitoring, traps 4488, 5419, 7509, 9784, 11832
  - morphology, neurosecretory system 9128
  - natural enemies 3086, 4423, 5424, 10370
  - parasitoids 2116, 3231, 6464, 7356, 7682, 8389, 9417, 9482, 9694
  - phagostimulants, effects 6259
  - pheromones 517, 4375, 5042, 11687
  - physiology
    - pheromones 7065, 10168
    - sense organs 11145
  - plant extracts, antifeedants 11701
  - potatoes
    - Prince Edward Island 4488, 9784
    - resistance 4492
  - predators 9482
  - sampling 3618
  - Slovakia 517
  - sorghum, Romania 564
  - yeasts, interactions 11303
- Othreis fullonia* (see *Eudocima fullonia*)**
- Othreis jordani* (see *Eudocima jordani*)**
- Othreis materna* (see *Eudocima materna*)**
- Otiorthynchinae**
- biology, seasonal abundance 4571
  - raspberries, Quebec 4571
- Otiorthynchus**
- control, chemical control 6663
  - strawberries, Poland 6663
- Otiorthynchus ligustici**
- insecticides, pathogenicity 4176
  - lucerne 4176
    - New York 9746
  - pathogens 6257, 9746
  - sugarbeet, Czech Republic 5588
- Otiorthynchus ovatus**
- biology, seasonal abundance 4571
  - forest trees, Quebec 730
  - raspberries, Quebec 4571

***Otiorthynchus salicicola***

- kiwifruits, Italy 4568
  - Viburnum tinus*, Italy 12027
- Otiorthynchus sulcatus**
- biological control agents, evaluation 4574, 7409, 10934
  - control
    - biological control 4574, 7973, 10470
    - chemical control 6812
  - Cyclamen* 7973
  - food plants, Germany 4574
  - forest trees, Quebec 730
  - insecticides, pathogenicity 371
  - ornamental woody plants, Poland 6812
  - pathogens 4188, 4574, 7398, 10457
  - rearing techniques 1179
  - strawberries 7398
  - trees, Germany 10934
- Otocyon megalotis**, prey, insects 2142
- Ottheidomenidae**, distribution, Australia 11362

***Oulema***

- biology, behaviour 8638
  - effects 8638
  - fungicides, effects 2324
  - wheat, Germany 2324, 8638
- Oulema cyanipennis***
- cereals, Hungary 7647
  - control, chemical control 7647
- Oulema duftschmiedi***
- Denmark 900
  - taxonomy 900
- Oulema elongata***
- food plants 917
  - taxonomy, new species 917
- Oulema gallaeciana***
- cereals, Hungary 7647
  - control, chemical control 7647
  - wheat
    - Czech Republic 10698
    - damage 10698, 11721
    - Poland 11721

***Oulema laticollis***

- taxonomy, new species 917
- Tradescantia* 917

***Oulema melanopus***

- biology 2412
- cereals
  - Hungary 7647
  - Syria 11714
- control, chemical control 7647
- crops, Sweden 1300
- Denmark 900
- taxonomy 900
- wheat
  - Czech Republic 10698
  - damage 10698, 11721
  - Italy 2412
  - Poland 11721
  - resistance 6445

***Oulema oryzae***

- control, chemical control 6495
- Hokkaido 7338
- Honshu 6341, 9562
- insecticides
  - resistance 6341, 9562
  - testing 9387
  - toxicity 7541
- parasitoids 7338
- rice, Japan 6495, 9728

***Oulema septentrionis***

- cereals, Hungary 7647
- control, chemical control 7647

***Oulema variabilis***

- food plants 917
- taxonomy, new species 917

***Ouratea spectabilis*, extracts, effects, *Atta sexdens* 7999****Outbreaks**

- Acrididae, Russia 11406
- Anigraea albomaculata*, Kerala 1588
- Aphis gossypii*, Cameroon 7889
- Cephalcia arvensis*, Italy 6796, 10970
- Cephalcia issikii*, Japan 8919
- Choristoneura fumiferana*
  - Maine 2690
  - Newfoundland 754
  - Quebec 2711
- Choristoneura occidentalis*, Oregon 11974
- Dendrolimus superans*, Russia 780

**Outbreaks cont.**

- Ecdytolopha aurantianum*, Trinidad and Tobago 6683
  - forest pests
    - British Columbia 6800
    - Slovenia 8863
  - Helicoverpa armigera*, China 7261
  - Hemiptera, Louisiana 7945
  - Liriomyza trifolii*, Andhra Pradesh 1607
  - Lymantria dispar* 403
    - Germany 7909
    - Pennsylvania 11974
  - Melolontha melolontha*, Germany 8620
  - Nilaparvata lugens*, Tropics 11749
  - Orgyia pseudotsugata*, Utah 8930
  - Orgyia vetusta*, California 12052
  - Panonychus citri*, California 8787
  - Pristophora abietina*, Austria 6797
  - Scolytus ventralis*, California 777
  - Sitona macularius*, Himachal Pradesh 2493
  - Spodoptera exempta*, Africa 5069
  - Spodoptera exigua*, Louisiana 6736
  - Tetranychus cinnabarinus*, Henan, mod-els 10918
  - Zethenia rufescentaria*, Hokkaido 10976
- Ovaticoccus agavium***
- biology 6031
  - Italy 6031
- Ovatus malisuctus***
- apples, China 3094
  - ecology, arthropod communities 3094
- Oviposition attractants**, *Luehdorfia japonica* 4356
- Oviposition deterrents**
- Callosobruchus* 8703
  - pest control, reviews 11565
- Oviposition deterring pheromones**
- Ceratitis capitata* 5374
  - Chrysopa oculata* 3835
  - Pieris* 2923
  - Rhagoletis cerasi* 7080
- Overmismis sinensis*, hosts, *Mythimna separata* 2201**
- Oxadiazon**, residues, aquatic organisms 10621
- Oxamyl**
- application, tomatoes 6608
  - control
    - Anthonomus eugenii*, *Capsicum annuum* 3527
    - Aphis gossypii*, cotton 9960
    - insect pests, *Lolium* 6509
    - Leptinotarsa decemlineata*, tomatoes 11827
    - Otiorthynchus sulcatus*, ornamental woody plants 6812
    - Thrips palmi*, *Phaseolus vulgaris* 5462
  - formulations, controlled release 8491
  - resistance
    - Ganaspidium utilis* 9612
    - Phyllonorycter elmaella* 7548-7549
    - Phyllotreta cruciferae* 6338
  - toxicity
    - Braconidae 10587
    - Leptinotarsa decemlineata* 4261
    - Theba pisana* 435
  - uptake, celery 6593
- Oxicesta geographica***
- biology, development 819
  - control, *Euphorbia esula*, evaluation 4787
  - Euphorbia*, Yugoslavia 819
- Oxidis gracilis*, insecticides, effects 2343**
- Oximes**, attractants, *Phytoseiulus persimilis* 4355
- (E)-4-Oxo-2-decenal**, repellents, *Solenopsis geminata* 4938
- Oxya agavisa***
- China 9228
  - genetics, chromosomes 9228
- Oxya bicingula***
- China 9228
  - genetics
    - chromosomes 9228
    - karyotypes 19
  - Shandong 19
  - taxonomy, new species 19
- Oxya chinensis***
- China 9228



- Oxya chinensis** *cont.*  
genetics, chromosomes 9228  
natural enemies 277  
rice  
  damage 8659  
  Hebei 8659  
  Shanxi 277
- Oxya hyla intricata**  
China 9228  
genetics, chromosomes 9228
- Oxya japonica japonica**  
genetics 1052  
Malaysia 1052
- Oxya velox**  
insects as food 5192  
Korea Republic 5192
- Oxya yezoensis**  
rice  
  damage 6493  
  Japan 6493
- Oxycarenus castaneus**, taxonomy, synonyms, of *O. hyalinipennis* 11090
- Oxycarenus hyalinipennis**  
distribution, Turks and Caicos Islands 6099  
taxonomy, synonyms, *O. castaneus* 11090
- Oxycarenus lavaterae**, *Tilia cordata*, Yugoslavia 1680
- Oxycetonia versicolor**  
*Moringa oleifera*  
  damage 2542  
  Tamil Nadu 2542
- Oxychloridane**  
nontarget effects  
  *Larus argentatus* 4306  
  *Mergus serrator* 8537
- Oxydemeton-methyl**  
control  
  *Amrasca devastans*, cotton 8833  
  *Diaphorina citri*, oranges 8783  
  *Lipaphis erysimi*  
    Indian mustard 5497  
    rape 9910  
toxicity  
  *Aphis gossypii* 2401  
  *Apis cerana* 3348
- Oxydeprofos**, resistance, *Aphis gossypii* 10551
- Oxydia trychiata**  
*Pinus patula*  
  Colombia 8907  
  damage 8907
- Oxyglyptus lepidopterae**, taxonomy, to *Spodopogon* 5171
- Oxyinae**  
Australia 5163  
ectoparasites 5163
- Oxylobus**, Mexico 6840
- Oxyopes javanus**  
prey  
  *Nilaparvata lugens* 6482  
  *Sogatella furcifera* 8664  
rice  
  fields  
    Indonesia 6482  
    Philippines 8664
- Oxyopes ludhianaensis**  
oilseed plants, habitats, Indian Punjab 9909  
taxonomy, new species 9909
- Oxyopes pandae**  
distribution, Indian Punjab 9909  
oilseed plants, habitats, Indian Punjab 9909
- Oxyopes salticus**  
biology, behaviour 4669  
cotton, fields, Texas 4669  
crops, fields, USA 4393  
rice, fields, Colombia 11742
- Oxyopidae**, prey, *Tetranychus cinnabarinus* 10371
- Oxyops vitiosa**  
biology, life history 12057  
control, *Melaleuca quinquerivaria*, evaluation 8981, 12057  
guavas 8981  
*Melaleuca quinquerivaria*, Australia 8981, 12057
- Oxyporus**  
fungi, Illinois 6097
- Oxyporus** *cont.*  
taxonomy 6097
- Oxyporus japonica**  
biology, reproduction 7992  
*Lampteromyces japonicus*, Honshu 7992
- Oxyporus stygius**  
biology, development 1738  
edible fungi 1738  
morphology 2874
- Oxyrachis**, distribution, China 5805
- Oxyrachis sinensis**  
forest trees, Yunnan 5805  
taxonomy, new species 5805
- Oxytelinae**  
crops, habitats, South Africa 3087  
ecology, population dynamics 3087  
pastures, habitats, South Africa 3087
- Oxytetracycline**, effects, *Acyrtosiphon pisum* 6326
- Oxythyrea funesta**, pathogens 4158
- Oysters**, pesticides, residues 4296
- Oziotelphusa senex senex**  
insecticides  
  effects 11616  
  metabolism 4295
- Ozone**  
effects  
  Aphididae 8922  
  *Diuraphis noxia* 4226  
  *Drosophila melanogaster* 8605  
  mixtures, effects, *Tetranychus urticae* 5394
- Pachlabutrazole**, effects, *Spodoptera eridania* 4250
- Pachliopta aristolochiae** (see *Atrophaneura aristolochiae*)
- Pachnaeus litus**  
Citrus, Florida 11896  
control, chemical control 11896
- Pachnidium canum**, vectors, Curculionidae 3284
- Pachnoda fasciata**  
biology, oviposition 1715  
*Pelargonium zonale* 1715
- Pachnoda sinuata**, biochemistry, metabolism 9170
- Pachybrachis pectoralis**  
biology, behaviour 1669  
*Quercus macrocarpa*, wood, Kansas 1669
- Pachybrachius bilobatus**  
control, chemical control 11868  
strawberries, Florida 11868
- Pachycerus cordiger**, food plants, France 2745
- Pachycondyla**  
biology, behaviour 2084  
Indonesia 2084
- Pachycondyla crassinoda**, biology, behaviour 1195
- Pachycrepoides veerannai**  
biology, life cycle 8369  
hosts, *Exorista bombycis* 8369
- Pachycrepoides vindemmiae**  
geographical distribution, Korea Republic 301  
hosts  
  *Delia antiqua* 301  
  *Drosophila melanogaster* 7330  
  Korea Republic 301
- Pachyderini**, taxonomy 4848
- Pachydiplosis oryzae** (see *Orseolia oryzae*)
- Pachygnatha degeeri**  
ecology, population dynamics 11929  
monitoring, traps 11929  
olives, orchards, Italy 11929
- Pachylia ficus**, parasitoids 8082
- Pachylobius picivorus**  
*Pinus*  
  damage 8898  
  Florida 8898
- Pachynematus clitellatus**, taxonomy 2946
- Pachyneuron**  
Fabaceae, commodities, Delhi 10042  
hosts, *Caryedon serratus-palaestinus* 10042
- Pachyneuron muscarum**  
*Crataegus*, habitats, Germany 6813  
Formicidae, interactions 6813  
hosts, *Psylla* 6813
- Pachyneuron nawai** (see *Euneura lachni*)
- Pachypappa tremulae**, *Picea abies*, UK 8922
- Pachypappa vesicalis**  
*Picea abies*, UK 8922  
*Picea sitchensis* 788
- Pachyrhinus yasumatsui**  
ecology, distribution 3654  
*Ziziphus sativa*, Hunan 3654
- Pachyrhynchus**, taxonomy 29
- Pachyrhynchus moniliferus**, taxonomy 29
- Pachysphinx**  
evolution 1853  
morphology 1853
- Pacific Islands**  
*Bactrocera dorsalis* group 8309  
*Rhantus* 1820  
Scolytidae 1810  
Tephritidae 11011
- Pacific Rim**, foods, pesticide residues 5335
- Paclobutrazol**, effects, predatory arthropods 11640
- Padan** (see Cartap)
- Paecilomyces**  
control, *Bemisia tabaci*, greenhouse crops 4759  
hosts  
  *Lambdina fervedaria athasaria* 2708  
  Lepidoptera 7866  
  interactions, Scolytidae 9977  
  taxonomy 4157  
  tillage, effects 2485
- Paecilomyces farinosus**  
culture techniques 4180, 11508  
genetics  
  DNA 11513  
  mutants 4154  
hosts  
  *Atteva fabriciella* 11514  
  *Cephalcia abietis* 4180, 9492  
  *Eligma narcissus* 11514  
  *Galleria mellonella* 8420  
  *Lambdina fervedaria* 5658  
  *Nephotettix virescens* 4154  
  *Odontotermes obesus* 6243  
  Psychidae 6708  
  *Spodoptera exigua* 9480  
  insects, cells, phagocytosis 9480  
  physiology 3264  
  *Polistes olivaceus*, interactions 10291  
  preparation 9492
- Paecilomyces fumosoroseus**  
biochemistry, chemical composition 5211  
control  
  *Bemisia tabaci*, ornamental plants 7974  
  *Plutella xylostella*, evaluation 1258  
  culture techniques 372, 1258  
  genetics, variability 9497  
  hosts  
    *Anastrepha fraterculus* 4202  
    *Bemisia argentifolii* 8443  
    *Coptotermes formosanus* 11526  
    *Eurhizococcus brasiliensis* 4203  
    *Galleria mellonella* 8420  
    *Odontotermes obesus* 6243  
    *Spodoptera frugiperda* 2199, 4193  
  viability, testing 10447
- Paecilomyces lilacinus**  
hosts  
  *Anastrepha fraterculus* 4202  
  *Odontotermes obesus* 6243
- Paederus fuscipes**  
prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482
- Paederus tamalus**  
prey, *Nilaparvata lugens* 6482  
rice, fields, Indonesia 6482
- Pagaronia spinosa**  
*Artemisia vulgaris*, Honshu 12042  
taxonomy, new species 12042
- Pagaronia tamotsui**  
*Artemisia vulgaris*, Honshu 12042  
taxonomy, new species 12042
- Pagdeniella**, taxonomy 5811
- Paints**, antifedants, *Hylobius abietis* 12007
- Pak-choi** (see Chinese cabbages)
- Pakistan** 2546  
*Acacia tortilis*, *Caryedon serratus* 8850  
*Aphelinus chaonia* 9098  
*Apodiphus* 2546  
*Bauhinia variegata*, *Didia* 8850



**Pakistan cont.**

- Carpocorini 4828
- Cheletomimus* 8059
- chickpeas, *Helicoverpa armigera* 10771
- cotton
  - Lepidoptera 5610
  - Pectinophora gossypiella* 3619
- cowpeas, *Bemisia tabaci* 2498
- crops, *Coleoscyrus* 6415
- Cucurbitaceae, *Bactrocera cucurbitae* 1528, 3006
- forest trees, insect pests 8850
- Hypsipyla robusta*, *Toona ciliata* 8850
- Indian mustard, *Brevicoryne brassicae* 1609
- insecticidal plants 11000
- Isoptera 11460
- Lepidoptera 24
- maize
  - insect pests 553, 1437
  - Rhopalosiphum maidis* 554, 1444
- Momordica charantia*, *Bactrocera cucurbitae* 6620
- Pentatomidae 4893
- rice
  - Scirpophaga* 6489
  - Scirpophaga neogilviberbis* 2468
  - Saccharum munja*, *Microcerotermes championi* 3685
- safflower, *Acanthophilus helianthi* 11926
- sorghum, *Chilo partellus* 6474
- spinach, insecticide residues 1510
- Strouhalium* 2832
- sugarcane
  - Lepidoptera 11949
  - Pyrilidae 3588, 6725
- tomatoes, Hemiptera 631
- vegetables, *Plutella xylostella* 6586
- wheat, commodities, stored products pests 9007, 11049

**Palaeartic Region**

- Apion hookeri* 820
- Clinocentrus* 9087
- Coraebini 11129
- Coryphini 909
- Dimmockia* 8076
- Lygaeidae 8064
- Neosasia* 1823
- Triaspis* 3
- Palaemonetes*, pesticides, toxicity 1344
- Palaemonetes pugio*
  - Beauveria bassiana*, effects 8410
  - insecticides, effects 2332
- Palembus dermestoides* (see *Ulmoides dermestoides*)
- Palexorista*
  - hosts
    - Amata passalis* 751
    - Nisaga simplex* 11745
  - rice, habitats, Orissa 11745
  - Santalum album*, habitats, Karnataka 751

**Pallasiola absinthii**

- control, chemical control 3481
- distribution, Gansu 3481
- grasslands, Gansu 3481

**Palloptera**, food plants, Norway 7289**Pallopteridae**, distribution, Norway 7289**Palmae** (see *Arecaceae*)**Palorus subdepressus**, cereal grains, South Carolina 4809**Paltothyreus tarsatus**

- Africa 5128
- biology, colonies 5128

**Pamacris**, taxonomy 918**Pammene fasciana**

- biology, behaviour 6703, 9979
- chestnuts, Italy 6703
- monitoring, traps 6703
- parasitoids 9979
- pheromones 6703
- plant extracts, effects 9979

**Pamphilus alnicola**

- Alnus hirsuta*, Hokkaido 5659
- biology, behaviour 5659

**Pampus chinensis**, insecticides, residues 11647**Panacea prola**

- biology 2601
- Caryodendron orinocense*, Colombia 2601
- control 2601

**Panacea prola cont.**

- parasitoids 2601

**Panama**

- Araneae, books 6922
- Argiope argentata* 4116
- Chusquea*, *Strongylothes* 7001
- Cicadidae 8268
- Citrus*, *Toxoptera citricidus* 4591
- figs, pollinators 4581
- food plants, *Carmentia foraseminis* 8081
- forests, litter, insects 4676
- Gustavia superba*, *Carmentia foraseminis* 8859
- Lepidoptera 192
- mangrove forests, insects 213
- Metamasius callizona* 5385
- Oenocarpus mapora*, *Stenotarsus rotundus* 2686
- Scheelea zonensis*, seeds, Bruchidae 7900
- tropical rain forests, insects 2649

**Panax japonicus**, *Epilachna yasutomii* 4493**Panaxia dominula**

- biology, environmental factors 3032
- genetics, population genetics 3032
- Pandanus amaryllifolius**, extracts, attractants, *Tribolium castaneum* 5271

**Pandemis**

- control, mating disruption 2543
- fruits, Europe 2543

**Pandemis cerasana**

- biology 7808
- control 7808
- pome fruits, Italy 7808

**Pandemis heparana**

- apples
  - Ukraine 2559
  - Yugoslavia 1539
- biology 2559
- monitoring, traps 1539

**Pandemis pyrusana**

- apples, Washington 1538
- biology, behaviour 3987
- control, mating disruption 1538

**Pandinus imperator**, physiology, haemolymph 4946-4947**Pandion haliaetus**

- insecticides
  - effects 2290
  - residues 4311

**Pandora blunckii**, hosts, *Plutella xylostella* 11814**Pandora neoaphidis**

- hosts
  - Brevicoryne brassicae* 1263
  - Myzus persicae* 4175

**Panicum colonum** (see *Echinochloa colonum*)**Panicum crus-galli** (see *Echinochloa crus-galli*)**Panicum dichotomiflorum**, *Listrionotus bonariensis*, resistance 6852**Panicum maximum**

- Acrididae, Tamil Nadu 6143
- insect pests 8618

**Panicum turgidum**, *Schistocerca gregaria*, Sudan 5710**Panolis flammea**

- Pinus sylvestris*
  - damage 8906
  - Russia 8906

**Panonychus**

- acaricides, effects 6333
- biology, development 7014
- morphology 7014

**Panonychus citri**

- acaricides
  - resistance 10875, 11580
  - toxicity 9590

**Citrus**

- California 8787
- China 8785
- Florida 11896
- Guangdong 668, 10875
- outbreaks 8787
- Zhejiang 11890

**control**

- chemical control 7859, 11896
- cultural control 668
- integrated control 11890
- ecology, population dynamics 789, 8785, 8941, 11890

**Panonychus citri cont.**

- genetics, variation 1958
- Honshu 11580
- Ilex crenata*, Japan 789
- Japan 1958
- natural enemies 668
- oranges 2131
- Italy 11900
- Osmanthus fragrans*, Hubei 8941
- predators 2131, 7859
- Ziziphus mauritiana*, Taiwan 7859

**Panonychus thelytokus**

- morphology 5838
- Ulmus*, Hokkaido 5838

**Panonychus ulmi**

- acaricides
  - effects 4276
  - resistance 4562, 7530, 8497, 11857
  - toxicity 9563

**apples**

- Beijing 9840
- China 644, 3094
- Denmark 2560
- Europe 4562
- Germany 5524, 6642
- Himachal Pradesh 1541
- Israel 3537
- Italy 11856-11857
- New York 4553, 4561
- New Zealand 6632
- Nova Scotia 2558, 9839, 10850
- Ontario 4560
- Portugal 6649
- resistance 2560, 10852
- South Africa 4548
- Spain 6650
- Tennessee 8751
- Virginia 6633
- Washington 8757
- biology 1548, 7808
- environmental factors 6112
- China 8456, 11535

**Citrus**

- damage 9889
- Hunan 9889
- control 7808, 11535, 11900
- biological control 4553, 6650, 10850, 11444
- chemical control 1548, 1557, 3537, 4548, 4560, 8456, 8751, 11856
- integrated control 9839
- Czech Republic 6112
- ecology
  - arthropod communities 3094
  - population dynamics 6667, 9344, 10850

**forecasting** 9840**France** 7530**fruits**

- Italy 11444
- South Africa 11841
- fungicides, effects 8774
- grapes
  - France 1557
  - Germany 6667
- hazelnuts 9907
- Honshu 9563
- monitoring 6632
- parasitoids 11856
- peaches, Italy 1548
- pome fruits, Italy 7808
- predators 644, 2558, 3221, 4124, 4548, 5524, 6642, 11856
- prey, *Typhlodromus pyri* 6667
- sampling 4561
- tree fruits, China 9344

**Panscopus**

- North America 4819
- phylogeny 4819

**Pantomorus cervinus**

- biology, reproduction 2846
- Citrus*, Victoria 5556
- insecticides, control, chemical control 5556
- taxonomy 2846

**Pantophyrius**, taxonomy 9057

- Panulirus argus**, insecticides, residues 11673

**Paonias**

- evolution 1853
- morphology 1853



**Papaver**

*Osmia tricornis*  
pollination 5148  
Spain 5148

**Papaver somniferum**

fields, beneficial insects, Madhya Pradesh 8828

*Myzus persicae*

Madhya Pradesh 8828, 8956  
resistance 8956

**Papaya ringspot potyvirus**

vectors

Aphididae 1527, 10837  
Aphidoidea 10891  
*Aphis spiraeola* 6697

**Papayas** (see Pawpaws)

**Papilio aegus**, parasitoids 10267

**Papilio andraemon bonhottei**

biology, behaviour 7223  
Florida 7223

**Papilio aristodemus ponceanus**

biology, behaviour 7223  
Florida 7223

**Papilio canadensis**

biology, development 3634  
ecology 7921  
forest trees, USA 3634  
insecticides, pathogenicity 10438  
Michigan 10438  
*Salix*, Alaska 7921

**Papilio cressphontes**

biology, behaviour 7223  
Florida 7223

**Papilio demodocus**

*Citrus*, South Africa 1574  
natural enemies 1574

**Papilio demoleus**, *Aegle marmelos*, Uttar Pradesh 9662

**Papilio devilliers**, distribution, Bahamas 9355

**Papilio glaucus**

genetics, chromosomes 5009  
insecticides, pathogenicity 10438  
Michigan 10438

**Papilio homerus**

biology 3933  
*Hermandia catalpaefolia*, Jamaica 3933

**Papilio machaon**

biology, life cycle 3066  
genetics  
chromosomes 5009  
DNA 3888  
Spain 3066  
taxonomy 3748

**Papilio polytes**

ecology, population dynamics, models 2076

Ryukyu Archipelago 2076

**Papilio polyxenes**

biochemistry, enzymes 9158  
genetics  
genes 1945, 11249  
messenger RNA 9158  
morphology, wings 10131  
physiology, furanocoumarins 964  
Umbelliferae 964

**Papilio protenor**

biology, behaviour 10676  
plant extracts, effects 10676  
Rutaceae 10676

**Papilio saharae**

Middle East 3748  
North Africa 3748  
taxonomy 3748

**Papilio xuthus**

biology 1966  
behaviour 10676  
cell lines, serum replacements, effects 4075  
physiology, sense organs 3842, 7084  
plant extracts, effects 10676  
Rutaceae 10676

**Papilio zelicaon**

food plants, USA 11316  
morphology, larvae 6993

**Papilionidae**

National Parks, India 8251  
biology, flight 192  
Colombia 5090  
distribution, Costa Rica 2024, 4051  
ecology, population dynamics 8251

**Papilionidae cont.**

North Africa 1796  
Panama 192  
physiology, senses 4956  
South Asia 24  
taxonomy 24, 1796

**Papilionoidea**

biology, behaviour 1091  
distribution, South Dakota 7274  
Mexico 4050  
taxonomy 908

**Papua New Guinea**

*Apis*, ectoparasites 11430  
*Caledia captiva* 1030  
*Calliandra surinamensis*, *Extatosoma carlbergi* 899  
*Endospermum labios*, *Camponotus quadricipes* 1643  
food, insecticide residues 4789  
*Metroxylon sagu*, *Rhynchophorus ferrugineus* 8882  
*Mimosa invisa*, natural enemies 1752  
*Scydmaenidae* 1821  
sugarcane  
plantations, parasitoids 4637  
*Sesamia griseocens* 4637

**Para-dichlorobenzene**, control, *Galleria mellonella*, comb honey 3297

**Parabemisia myricae**

biology 7205  
*Citrus*, Turkey 11895  
control, biological control 7205, 11895  
*Dialeurodes citri*, interactions 7205  
ecology 7205  
genetics 5003  
Honshu 3767  
parasitoids 445, 3767, 7232, 11436  
Turkey 7205

**Parabrulleia**, taxonomy 4854

**Paraceratitella compta**, distribution, Australia 8315

**Parachalepus**, taxonomy, synonyms, of *Parachalepus* 28

**Parachalepus brevicornis**, taxonomy, to *Chalepus* 28

**Parachoranthus magdalia**, distribution, Bahamas 9355

**Paracletus cimiciformis**

*Pistacia palaestina*  
galls 5568  
Israel 5568

**Paracoccus denitrificans**, *Steinernema scapterisci*, symbiosis 10449

**Paracolopodacus**, taxonomy, new genus 10097

**Paracolopodacus camelliae**

*Camellia oleifera*, Guangxi 10097  
taxonomy, new species 10097

**Paractenosciara longimentula**

*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810

**Paradacus depressus** (see *Bactrocera depressa*)

**Paraffin**, control, arthropod pests, *Citrus* 11900

**Paraformaldehyde**, effects, entomopathogens 9468

**Paraguay**

cotton, *Anthonomus grandis* 2624  
*Enterolobium contortisiliquum*,  
*Lochmaeocles sladeni* 7929  
sweet potatoes, *Euscepes postfasciatus* 11803  
tomatoes, *Scrobipalpa absoluta* 10822

**Paragus**, Romania 1838

**Paragus albifrons**, Romania 1838

**Paragus bicolor**, Romania 1838

**Paragus hyalopteri**

prey, *Hyalopterus pruni* 1842  
*Prunus*, orchards, Spain 1842  
taxonomy, new species 1842

**Paragus majoranae**, Romania 1838

**Paragus quadrifasciatus**

Romania 1838  
Slovakia 3105

**Paragus serratus**

pomegranates, orchards, Karnataka 9903  
prey, *Aphis punicae* 9903

**Paragus tibialis**

biology, life history 8824  
ecology, population dynamics 8824

**Paragus tibialis cont.**

prey, *Toxoptera aurantii* 8824  
tea, plantations, India 8824

**Paraholaspis cothurnatus**, taxonomy, synonyms, of *Microdontomerus annulata* 9049

**Paralastor debilitatus**

Australian Capital Territory 7215  
biology, behaviour 7215  
prey, *Emplesis* 7215

**Paraleyrodes bondari**

oranges, Rio de Janeiro 4586  
*Orthezia praelonga*, biological competition 4586

**Paraleyrodes minei**, *Citrus*, Israel 3555

**Paralitomastix pyralidis**

hosts, *Anarsia lineatella* 3539  
stone fruits, orchards, California 3539

**Parallelodiplosis**

morphology 7671  
wheat, Shaanxi 7671

**Paramecium aurelia**, insecticides, effects 10611

**Paramecium caudatum**, insecticides, effects 6375

**Paramecium tetraurelia**, insecticides, effects 10595

**Parametriotes theae**

ecology, distribution 9932  
tea, China 9932

**Paranapiacaba connexa**

ecology, population dynamics 11357  
Mexico 11357

**Paranastatus nigriscutellatus**

coconuts, plantations, Tonga 10899  
hosts, *Graeffea crouanii* 10899

**Paranastatus verticalis**

coconuts, plantations, Tonga 10899  
hosts, *Graeffea crouanii* 10899

**Parandra cribata**, *Cyrtilla racemiflora*, habitats, Puerto Rico 6767

**Paranthrene regalis**

biology 7171  
control 7171

**Paranthrene robiniae**

control, chemical control 4686  
forest trees, California 4686

**Paranthrene tabaniformis**

China 902  
control, chemical control 10946  
monitoring, traps 10946  
parasitoids 902  
*Populus*, Italy 10946

**Paralinx**

*Eucalyptus cloeziana*, forests, Minas Gerais 7913  
hosts, *Lethata unophthalma* 7913

**Paraoxon**

carbofuran, interactions 491  
degradation 9548, 10642  
*Gliocladium virens* 4241  
detection 10597  
determination 10507  
effects

mice 2337, 10584  
*Reticulitermes flavipes* 9165  
*Trogoderma granarium* 6331  
resistance  
*Aphis gossypii* 8507  
*Plutella xylostella* 5299  
*Schizaphis graminum* 453, 4978  
synergists 8507

**Parapediasia teterrella**

*Acremonium*, interactions 4456  
biology, development 4758  
lawns and turf, New Mexico 4758  
*Lolium perenne*  
Japan 4456  
resistance 4456

**Paraphytomyza populi**

distribution, Belgium 2025  
*Populus*, Belgium 2025

**Paraponera clavata**

biology, behaviour 8262  
prey

*Atta cephalotes* 7925  
Lepidoptera 8262

**Parapoynx stagnalis**

biology, reproduction 4443  
rearing techniques 4443  
rice 4443



**Paraquat**

## effects

*Drosophila melanogaster* 963, 3387*Eretmocerus debachi* 445toxicity, *Metarhizium anisopliae* 2307**Pararge aegeria**

## biology

behaviour 64

life cycle 9333

reproduction 3921

Europe 3921, 9333

morphology 64

**Paraseiulella**, taxonomy 3762**Paraseiulella plumipilis**

cocoa, Nicaragua 3762

taxonomy, new species 3762

**Paraseiulella profitai**

taxonomy, new species 3762

walnuts, California 3762

**Paraserianthes falcata**, insect pests, India 2679**Parasetigena silvestris**, hosts, *Lymantria dispar* 4687**Parasitizopus armaticeps**

biology, environmental factors 7726

*Lebeckia*, habitats, South Africa 7726**Parasitoids**

arthropod pests, plants, interactions 2109

Bahamas 11459

## biology

behaviour 7199, 9299

models 9303

Central America 7335

chrysanthemums, fields, Honshu 10014

*Citrus*, orchards, Brasilia 3559

coconuts, plantations, Tamil Nadu 3582

control, Cicadelloidea, evaluation 3716

## cotton

fields 11972

Bangladesh 5611

diets, reviews 2139

ecology 3916, 11459

communities, models 1220

competition, models 2114

ecosystems 5082

habitats 4036

insect communities 2119

interspecific competition, models

3012

population dynamics 8292, 8810

models 388, 1217, 2112, 11354

sex ratio 7344

species diversity 3290, 3292-3293

## fields

Germany 11344

Kenya 6427

grasses, habitats, Mexico 4036

groundnuts, fields, South Africa 8810

hosts, *Dicladispa armigera* 7707

insecticides, effects 3494, 5428, 5611,

5645, 7707

## interactions

cotton 11972

food plants, Aphididae 8365

introduced species, interspecific competition 1200

North America 1220

pesticides, effects 2335

physiology 8370

*Picea abies*, habitats, Norway 7959*Quercus*, habitats, New Mexico 4737

rearing techniques 271

reviews 299

*Solanum elaeagnifolium*, habitats, South Africa 8982

wheat, fields, UK 4409

**Parathion**

analysis 5112

chemistry 4064

## control

*Carposina sasakii*, apples 8755

Tipulidae, grasslands 2472

degradation 9548, 10642

water 4231

## effects

*Chasmagnathus granulata* 6356

mice 2337

rats 8518

*Schizaphis graminum* 453

soil flora 10598

*Trogoderma granarium* 6331**Parathion cont.**

exposure, nontarget organisms, evaluation

11622

hydrolysis 6299

interactions, cyclodextrins 4239

## metabolism

carrots, cell lines 1367

rats 7557

mixtures, control, Scarabaeidae, ground-

nuts 11934

photolysis 1382

## residues

bogs 11675

invertebrates 6369

olives, commodities 12078

precipitation 4341

rain 2368

rivers 11677

vaccinium 3543

Vaccinium 11675

water 507, 11661

## resistance

*Aphis gossypii* 8507*Helicoverpa armigera* 10542*Plutella xylostella* 5299*Schizaphis graminum* 7544, 7546

## toxicity

aquatic organisms 8521

*Bufo arenarum* 10590

mammals 450

*Photobacterium phosphoreum* 450

pigeons 10589

**Parathion-methyl**

## control

*Anthonomus grandis*, cotton 5614, 9950*Helopeltis antonii*, cashews 5569*Holotrichia parallela*, strawberries 7831

## insect pests

apples 8753

rice 7702

safflower 12047

soybeans 9750

*Metcalfa pruinosa*, fruits 11854*Mythimna separata*, rice 2467*Ostrinia nubilalis*, maize 10708

Pentatomidae, rice 1460

*Sitona macularius*, peas 2493

Tipula, rice 3454

*Zeuzera pyrina*, olives 1604

## degradation

carnations 4291

soil flora 4297

water 4231

determination 1313, 8565

## effects

*Colinus virginianus* 6372

cotton 2311, 9950

*Daphnia magna* 4287*Dugesia tigrina* 4286

fishes 1352

*Gloeocapsa* 4323

laboratory animals 7595

onions, cell culture 7595

rabbits 10585

rats 6365

Siluriformes 2283

Tetranychidae 10618

*Trichogramma pretiosum* 1337

formulations 11854

hydrolysis 6299

mercury 4339

## interactions

cyclodextrins 4239

sodium chloride 1472

metabolism, *Ozietelphusa senex* 4295

mixtures, control, Scarabaeidae, ground-

nuts 11934

## nontarget effects

Araneae 6169

*Bellamyia dissimilis* 5321*Brachionus calyciflorus* 1369*Colinus virginianus* 10596

fishes 1378

mammals 10579

onions 6573

predatory arthropods 5614

*Rana perezi* 10622

penetration, clothing 4232

**Parathion-methyl cont.**

## residues

apples, commodities 9001

determination 490

fishes 8551

goats 11653

groundwater 10652, 10667

olives, commodities 12078

rivers 10652, 11677

spinach 1510

water 8551, 11661

extraction 10649

## resistance

*Anthonomus grandis* 398

Aphididae 7543

*Apis* 7585*Heliothis virescens* 4979*Plutella xylostella* 5299

## safety, man 2081

## toxicity

Braconidae 10587

*Clarias batrachus* 2286*Cnaphalocrocis medinalis* 11744*Cylas formicarius* 11601*Helicoverpa* 6319*Ostrinia nubilalis* 9579

Pentatomidae 1472

*Photobacterium phosphoreum* 10616*Tricliona picea* 9557**Paratrechina**

pastures, Colombia 5457

prey, *Aeneolamia* 5457**Paratrechina flavipes**

## biology

behaviour 9412

reproduction 2091

Japan 9412

**Paratrechina fulva**, juvenile hormone analogues, effects 10559**Paratrechina longicornis**

biology, behaviour 7892

cotton, habitats, India 7892

distribution, British Columbia 9368

ornamental plants, British Virgin Islands 6806

prey, *Litoprosopus futilis* 3674**Paratyia australiensis**, insecticides, effects

9609

**Paratyia compressa improvisa**, insecticides,

effects 475

**Paravespula vulgaris** (see *Vespula vulgaris*)**Pardasena virgulana**, distribution, UK 3102**Pardosa**

biology, behaviour 5154

fields, habitats, North America 5154

insecticides, residues 6369

parasitoids 5154

**Pardosa amenata**

biology, nutrition 11458

prey, insect pests 11458

**Pardosa astrigera**, taxonomy 2834**Pardosa hortensis**

## biology

behaviour 2118

models 8371

prey, *Drosophila melanogaster* 8371**Pardosa injucunda**

ecology, population dynamics 1417

prey, *Atherigona soccata* 1417

sorghum, fields, Burkina Faso 1417

**Pardosa T-insignata**, prey, *Mythimna**separata* 256**Pardosa lyriivulva**, taxonomy 2835**Pardosa milvina**

insecticides, effects 4511

kale, fields, South Carolina 4511

prey, *Plutella xylostella* 4511**Pardosa palustris**, habitats, Poland 536**Pardosa paramushirensis**, taxonomy 2834**Pardosa prativaga**

biology, nutrition 11458

prey, insect pests 11458

**Pardosa pseudoannulata**prey, *Sogatella furcifera* 8664

rice, fields, Philippines 8664

**Pardosa riparia**, taxonomy 2835**Pardosa saxatilis**, rice, fields, Colombia

11742

**Pardosa sphagnicola**, biology, behaviour

5049

**Pardosa suwai**, taxonomy 2834



**Parechthodryinus clavicornis**  
  *Butea monosperma*, habitats, Bihar 11431  
  ecology, population dynamics 11431  
  hosts, *Kerria lacca* 11431

**Parectromoides varipes**  
  fruits, habitats, New Zealand 640  
  hosts, *Pseudococcus longispinus* 640  
  morphology 640

**Pareuchaetes insulata** (see *P. pseudoinsulata*)

**Pareuchaetes pseudoinsulata**  
  biology 2216  
  *Chromolaena odorata*, South Africa 2216  
  control, *Chromolaena odorata* 2216, 11028  
  Florida 2216  
  food plants 2216

**Paridae**, Formicidae, interactions 2088

**Parietaria debilis**, *Bassaris itea*, Australia 1746

**Parietaria judaica**, *Bassaris itea*, Australia 1746

**Parirazona**, taxonomy 6955

**Parks**, *Lymantria dispar*, Maryland 4684

**Parlatoria**  
  Citrus, Sao Paulo 6687  
  control 6687

**Parlatoria blanchardii**  
  dates  
    Gujarat 1579, 7858  
    Iran 674  
    Tunisia 9900  
    varietal susceptibility 9900  
  parasitoids 7858  
  predators 674, 1579, 3914, 7858

**Parlatoria cinerea**  
  biology, life cycle 9275  
  Citrus, Israel 7221  
  ectoparasites 7221  
  oranges, Sao Paulo 7846  
  parasitoids 7846  
  predators 9275

**Parlatoria oleae**, control, biological control 7870

**Parlatoria pergandii**  
  Citrus, Israel 7221  
  ecology, population dynamics 6686  
  ectoparasites 7221  
  oranges, Spain 6686  
  parasitoids 7256

**Parnara guttiatus**  
  control, chemical control 10474  
  Fujian 8  
  Honshu 10494  
  Japan 10474  
  monitoring 10494  
  traps 10474  
  parasitoids 8

**Parnassia palustris**  
  Diptera  
    Norway 5705  
    pollination 5705

**Parnassiinae**  
  morphology, eggs 7009  
  taxonomy 896

**Parnassius**  
  biochemistry, secretions 11186  
  morphology, eggs 7009

**Parnassius mnemosyne**  
  France 6011  
  genetics, population genetics 6011

**Paromius longulus**, distribution, Turks and Caicos Islands 6099

**Paropsides soriculata**  
  biology, life history 10953  
  *Crataegus*, Jilin 10953

**Paroxyna bidentis**  
  ecology, interspecific competition 5079  
  Japan 5079

**Paroxyna genalis**  
  Asteraceae, California 5016  
  biology, morphology 5016  
  morphology 5016  
  parasitoids 5016

**Parsley** (*Petroselinum crispum*)  
  Aphididae, Belgium 8965  
  *Papilio polyxenes* 964

**Parthenium argentatum**, *Xyonysius californicus* 2001

**Parthenium hysterophorus**  
  biology, behaviour 5715

**Parthenium hysterophorus** cont.  
  control, biological control 1748-1751, 3288, 5715, 6045, 8001  
  Karnataka 5715  
  *Listronotus setosipennis*, South America 3288  
  natural enemies  
    Karnataka 6045  
    Queensland 3288  
  *Zygogramma*, India 1750-1751  
  *Zygogramma bicolorata*  
    India 1748-1749  
    Karnataka 8001

**Parthenolecanium corni**  
  apples, West Virginia 651  
  control, integrated control 8776  
  ecology, spatial distribution 651  
  grapes, Chile 8776

**Paritya australiensis**, pesticides, toxicity 5326

**Parus ater**, prey, insects 10205

**Parus atricapillus**, insecticides, effects 4292

**Parus caeruleus**  
  insecticides, effects 10940  
  prey  
    arthropods 10940  
    Coccinellidae 9220

**Parus major**  
  prey  
    insects 10205  
    *Operophtera brumata* 11980

**Pasania edulis**, *Deporaus insularis*, Japan 8084

**Pascopyrum smithii**, Acrididae, Colorado 4454

**Pasimachus strenuus**  
  ecology 4033  
  Florida 4033  
  monitoring, traps 4033

**Pasimachus subsulcatus**  
  ecology 4033  
  Florida 4033  
  monitoring, traps 4033

**Paspalum conjugatum**, *Pelopidas mathias* 6409

**Paspalum dilatatum**  
  *Listronotus bonariensis*  
    damage 6508  
    New Zealand 6508  
    resistance 6852  
  *Poanes melane* 5402

**Paspalum paspaloides**, *Listronotus bonariensis*, resistance 6852

**Passalidae**  
  ectoparasites 10078  
  *Eucalyptus*, Espirito Santo 3637  
  monitoring, traps 3637

**Passalini**, taxonomy 3774

**Passaloecus cuspidatus**  
  biology, behaviour 8372  
  Michigan 8372  
  prey, Aphididae 8372

**Passer domesticus**  
  insecticides, effects 2338, 3374  
  pesticides, carriers, degradation 9607

**Passerculus sandwichensis**, pesticides, consumption 11645

**Passerina cyanea**, pesticides, consumption 11645

**Passiflora**  
  *Diabrotica speciosa* 10892  
  Notodontidae, Venezuela 4896

**Passiflora cincinnata**, *Mononychellus tanajoa* 11702

**Passiflora edulis** (see *Passion fruits*)

**Passiflora pittieri**, *Heliconius hewitsoni* 3936

**Passiflora vitifolia**, *Heliconius cydno*, Costa Rica 9074

**Passion fruits** (*Passiflora edulis*)  
  arthropods, South Africa 2587  
  Nymphalidae, Pernambuco 1578  
  *Pseudaulacaspis pentagona* 1584

**Passionflower** (see *Passion fruits*)

**Passipassalus**, taxonomy, new genus 3774

**Passipassalus buhrnheimi**, taxonomy, new species 3774

**Pastinaca sativa**, *Depressaria pastinacella*, Illinois 2743

**Pastures**  
  Acari, New South Wales 11755  
  *Adoryphorus couloni* 2476

**Pastures** cont.  
  arthropod pests  
    Australia 11706  
    Western Australia 11756  
    yield losses 11756  
  arthropods, grazing, interactions 11756  
  Carabidae, New Zealand 9445  
  Cercopidae, Brazil 3480  
  *Cornitermes cumulans*, Mato Grosso do Sul 4457  
  *Costelytra zealandica*  
    damage 2478  
    New Zealand 2478, 6511, 11762  
  *Formica podzolica*, Alberta 817  
  Formicidae, Colombia 5457  
  *Graphognathus leucoloma*, New Zealand 6510  
  habitats, Scarabaeidae, South Africa 3087  
  *Halotydeus destructor*  
    economics of control 11758  
    models 11758  
    Western Australia 11758  
  *Hypera punctata*, Honshu 11751  
  insecticides, residues, models 4450  
  *Listronotus bonariensis*  
    New Zealand 2217, 6507  
    parasitoids, New Zealand 6512  
  *Microctonus*, New Zealand 1462  
  *Oncopera*, Tasmania 5445  
  Rhopalocera, Norway 7240  
  *Scaptocoris castanea*, Sao Paulo 2477  
  *Solenopsis invicta*, Georgia 2095  
  *Tipula paludosa*, Washington 5450

**Patents**, *Bacillus thuringiensis* 10497

**Pathogens**, ultraviolet radiation, effects 9479

**Patialis tecomella**  
  biology  
    life cycle 3668  
    reproduction 198  
  *Tecomella undulata*, Indian Punjab 3668

**Patrobus assimilis**, grasslands, UK 5453

**Patrobus atrofufus**  
  barley, fields, Finland 11562  
  monitoring, traps 10693  
  pollutants, effects 11562  
  wheat, fields, Finland 10693

**Pauesia unilachni**  
  ecology, environmental factors 8367  
  hosts, *Schizolachnus pineti* 8367

**Paullinia cupana**, pest control, Brazil 798

**Pawpaws** (*Carica papaya*)  
  *Amblypelta lutescens*, Queensland 6693  
  *Anastrepha suspensa*, Florida 11909  
  *Aphis spiraeicola*, El Salvador 6697  
  *Bactrocera* 6945  
  *Bactrocera philippinensis*, Philippines 9892  
  *Bactrocera tau* 2540  
  *Ceratitis capitata* 5696  
  commodities, Tephritidae 10029  
  *Toxotrypana curvicauda* 4602

**Paxylommatidae**, taxonomy 1803

**PCBs** (see *Polychlorinated biphenyls*)

**Pe-tsai** (see *Chinese cabbages*)

**Pea enation mosaic enamovirus**, vectors, Aphididae 10769

**Peach mosaic**, vectors, *Eriophyes insidiosus* 7826

**Peaches** (*Prunus persica*)  
  Acari, Taiwan 2563  
  *Aculus fockeui*, Sichuan 9848  
  *Anarsia lineatella*, California 3539  
  *Anastrepha*, Santa Catarina 1544  
  *Anastrepha fraterculus* 7207  
    Brazil 7207  
    Rio Grande do Sul 4567  
  Aphididae, Italy 9850  
  arthropod pests  
    Italy 1548  
    Ukraine 11864  
  *Atethmia ambusta*, Bulgaria 11850  
  *Bactrocera pyrifoliae*, Thailand 9898  
  *Carpophilus*, New South Wales 7060  
  *Conotrachelus nenuphar*, Georgia 6654  
  *Cydia molesta* 7801  
    Bulgaria 11863  
    Italy 6659  
    Ontario 6660  
  *Eriophyes insidiosus*, Mexico 7826  
  *Forficula auricularia*, France 12044



**Peaches cont.**

*Frankliniella occidentalis*  
damage 10857  
Israel 10857  
habitats, beneficial insects, Italy 11844  
insecticides, residues 10859  
integrated pest management, Czech  
Republic 5532

*Lygus rugulipennis*  
damage 11865  
Italy 11865

*Mesolecanium nigrofasciatum*, Tennessee  
8751

*Myzus persicae*  
Idaho 4175  
resistance 653, 7825  
Uttar Pradesh 2892

*Myzus varians*, Italy 9851

Nitidulidae, Italy 11845

orchards

Aphelinidae, Italy 6659

parasitoids, California 3539

predatory insects, Italy 9850-9851

pest control 868

Italy 7823

pest management, California 654

pesticides, residues 9394

*Pseudaulacaspis pentagona*, Italy 11844

*Tetranychus urticae*, USA 10717

Tortricidae, Europe 2543

**Peanuts** (see Groundnuts)

**Pearl millet** (see *Pennisetum americanum*)

**Pears** (*Pyrus communis* and *P. pyrifolia*)

*Acronicta rumicis*, Jiangsu 7635

*Aphanostigma piri*

damage 3538

Taiwan 3538

*Argyrotaenia ljugiana*, Italy 11853

arthropod pests

Victoria 5517

Washington 6652

*Bacchisa guerrii*, China 11860

*Bactrocera* 6945

*Cacopsylla pyri* 4564

France 8765

Greece 10855

Italy 2562

resistance 9846

*Cacopsylla pyricola*

Czech Republic 6653

resistance 5531, 7821

Washington 4563, 8766

commodities, insecticides, residues 3710

*Contarinia pyrivora*

damage 1542

Poland 1542

*Cydia molesta*, Italy 7809

*Cydia pomonella*

Australia 2549

China 9829

South Africa 10841

*Eriophyes*

damage 1543

galls 1543

India 1543

*Frankliniella occidentalis*

damage 10854

Israel 10854

habitats, beneficial insects, New Zealand

640

insect pests

sampling 10840

UK 10840

integrated pest management

Belgium 1534

Europe 1533

*Metcalfa pruinosa*, Italy 11843

orchards

beneficial arthropods, Italy 11856

beneficial insects, Italy 2562

*Forficula auricularia* 4565

pest control 9027

Italy 3534

pesticides, residues 6651

*Pseudococcus*, New Zealand 640

*Tetranychus urticae*

Australia 8767

damage 8767

Tortricidae, Europe 2543

**Peas** (*Pisum sativum*)

*Acyrtosiphon pisum* 2900, 4467

**Peas cont.**

*Acyrtosiphon pisum* cont.

Sweden 586

Aphididae, Europe 10769

arthropod pests, control, chemical control

2400

arthropods, UK 6080

*Bruchus pisorum*

Chile 4466

resistance 2494

*Chromatomyia horticola* 5851

Turkey 1470

commodities

*Acanthoscelides obtectus* 12066

*Callosobruchus*, resistance 2777

*Contarinia pisi*, Switzerland 9759

*Cydia nigricana*, Sweden 4480

*Etiella zinckenella*, resistance 2495

extracts

antifeedants, *Nilaparvata lugens* 8614

effects, *Bruchus pisorum* 4466

fields, predatory arthropods, Sweden 586

habitats

Carabidae, Alberta 1214

*Pirene chalybea*, Switzerland 9759

*Halotydeus destructor* 3487

insect pests

reviews 9757

South Africa 9757

Uttar Pradesh 1480

insecticides, residues 2323

intercropping

barley, Carabidae 8375

rape, control, *Phyllotreta cruciferae*

1591

*Liriomyza bryoniae*, Taiwan 2492

*Myzus persicae*, Brasilia 6544

*Ophiomyia phaseoli*, Indian Punjab

11776

pest resistance 6283

*Sitona lepidus*, resistance 4481

*Sitona lineatus*

damage 9758

France 9758

Poland 3490

resistance 11777

*Sitona macularius*, Himachal Pradesh

2493

**Peatlands**

Carabidae

UK 8289

USA 11349

**Pecans** (*Carya illinoensis*)

*Acrobasis nuxvorella*, Texas 11916

Aphididae

Georgia 4609

resistance 4610

arthropod pests 6702

*Cydia caryana*, Alabama 4611, 9906

habitats, Neuroptera, USA 2122

*Locastra muscosalis*, Korea Republic

6701

*Monellia caryella*, Israel 5566

*Monelliopsis pecanis* 8798

orchards

*Harmonia axyridis*, USA 4609

predatory arthropods, Israel 5566

Pentatomidae

damage 9905

South Africa 9905

pests

resistance 8797

USA 8797

*Sesia molydoceps*, Honshu 5633

**Pectinophora gossypiella**

attractants 1627

biology 8843

behaviour 4656, 5610

environmental factors 4671-4672

China 9345

control 3287, 5610, 8048

chemical control 1634, 3622, 5610,

8836

cultural control 4664

mating disruption 3619, 4655

cotton 8048

Arizona 706, 712, 3620

Brazil 1629

California 708, 4671-4672, 8843

commodities, Sao Paulo 7886

Haryana 6738

**Pectinophora gossypiella cont.**

cotton cont.

Hubei 5618, 7887

India 9963

Indian Punjab 1634, 3622

Maharashtra 8834, 8836

Pakistan 3619, 5610

resistance 706, 2634, 5618, 6738,

9962-9963

Sao Paulo 1627, 1630, 4655-4656

Tamil Nadu 3612

distribution, Denmark 1152

ecology

distribution 7887

population dynamics, models 9345

fertilizers, effects 3612

field crops, California 4664

genetics, mutants 8344

India 8502

insecticides, resistance 8502

irrigation, effects 706, 8843

monitoring, traps 708, 1627, 1630, 3620,

4656, 4671-4672, 8834

pathogens 8428

pheromones 3619, 5610

physiology, pheromones 3825

predators 712, 7887

detection 6127

rearing techniques 8344

**Pectobacterium** (see *Erwinia*)

**Pediastrum**, insecticides, effects 10614

**Pedicularis semibarbata**, *Occidrys editha*,

California 11327

**Pediobius**

Fujian 8

hosts

*Nematus oligospilus* 10948

*Strigina bifida* 5689

*Magnolia biloba*, habitats, Zhejiang 5689

*Salix*, habitats, Southern Africa 10948

**Pediobius brachycerus**

distribution, China 8

hosts, Araneae 8

**Pediobius bruchicida**

biology, life cycle 5155

ecology, population dynamics 5155

hosts, *Dasineura gleditchiae* 5155

**Pediobius facialis**

China 921

hosts, *Adoxophyes orana* 921

**Pediobius foveolatus**

aubergines, fields, Himachal Pradesh

9816

hosts, *Epilachna vigintioctopunctata* 9816

physiology, cells 3202

**Pediobius fujiangensis**

hosts, *Abraxas* 8

*Pinus*, habitats, Fujian 8

taxonomy, new species 8

**Pediobius furvus**

control, *Sesamia grisescens*, sugarcane

4637

sugarcane, plantations, Papua New

Guinea 4637

**Pediobius grisescens**

hosts, *Galerucella grisescens* 8053

Jiangxi 8053

taxonomy, new species 8053

**Pediobius inexpectatus**

distribution, China 8

hosts, *Parnara guttatus* 8

**Pediobius narangae**

hosts, *Naranga aenescens* 8053

Jiangxi 8053

taxonomy, new species 8053

**Pediobius planiceps**

China 921

hosts, *Melanitis leda* 921

taxonomy, new species 921

**Pediobius polychrosis**

hosts, *Polychrosis cunninghamiacola*

8053

Jiangxi 8053

taxonomy, new species 8053

**Pediobius sinensis**

hosts, *Chrysodeixis agnata* 8053

Jiangxi 8053

taxonomy, new species 8053

**Pegohylemyia fugax**

cabbages, Poland 6580

control,



- Pegomya**  
beetroots, France 1497  
control, chemical control 1497, 11953  
sugarbeet, Italy 11953
- Pegomya betae**  
mangolds  
Poland 5486  
resistance 5486  
sugarbeet, Czech Republic 5588
- Pegomya cunicularia**  
parasitoids 2612  
sugarbeet, Spain 2612
- Pegomya hyoscyami**  
control, chemical control 10907  
sugarbeet, Germany 10907
- Pegomya nigritarsis**, *Rumex obtusifolius*, damage 4788
- Pelargonium**  
*Frankliniella occidentalis* 7976  
pest resistance 7966-7967
- Pelargonium** × **domesticum**, *Trialeurodes vaporariorum*, resistance 6817
- Pelargonium flower break carmovirus**, vectors, *Frankliniella occidentalis* 7976
- Pelargonium hortorum**  
insect pests, resistance 10011  
pest resistance 7966-7967
- Pelargonium zonale**, *Pachnoda fasciata* 1715
- Pelecancus conspicillatus**, insecticides, residues 4311
- Pelidnota ludovici**  
genetics, karyotypes 5983  
Sao Paulo 5983
- Pelopidas mathias**  
biology, development 6409  
food plants 6409  
rice, Philippines 6409
- Pemphigus betae**  
biology, environmental factors 8331  
rearing techniques 8331  
sugarbeet 8331
- Pemphigus obesinymphae**  
*Populus fremontii*  
galls 5649  
USA 5649  
taxonomy, new species 5649
- Pemphigus vesicarius**  
parasitoids 6174  
*Populus nigra* 1674
- Penaecidae**, insecticides, effects 2297
- Penaecus aztecus**, pollutants, residues 2353
- Penaecus duorarum**, insecticides, toxicity 6373
- Penaecus indicus**, insecticides, residues 11647
- Penaecus japonicus**  
insecticides, toxicity 9625-9626  
synergists, effects 9625-9626
- Penaecus monodon**, insecticides, residues 11647
- Pendimethalin**  
effects, rice 8666  
toxicity, *Metarhizium anisopliae* 2307
- Penfluron**  
effects  
*Apis* 8570  
*Euproctis icilia* 9555  
Lepidoptera 1326  
*Spodoptera litura* 10535  
toxicity, *Alphitobius diaperinus* 10537
- Pengonia lusca ilus**  
pathogens 5594  
tea, Argentina 5594
- Penicillaria jocosatrix**  
cashews, Northern Territory 11921  
predators 11921
- Penicillium**  
growth regulators, degradation 4299  
*Polistes olivaceus*, interactions 10291  
*Sitophilus zeamais*, interactions 6885  
stored products pests, interactions 6878  
vectors, insect pests 1272
- Penicillium alcaligenes**, growth regulators, degradation 4299
- Penicillium chrysogenum**, insecticides, effects 6376
- Penicillium citrinum**, hosts, *Antheraea mylitta* 8446
- Penicillium corylophilum**, insecticides, effects 6376
- Penicillium funiculosum**, insecticides, effects 6376
- Penicillium spinulosum**, *Onychiurus armatus*, interactions 1072
- Penicillium testatorum**, growth regulators, degradation 4299
- Peninsular Malaysia**, *Gigantochloa scortechinii*, habitats, *Carvalhohulvius gigantochloae* 11126
- Pennisetum americanum**  
Acrididae  
Mali 5433  
yield losses 5433  
*Atherigona soccata*  
Rajasthan 10726  
resistance 10726  
commodities  
*Sitophilus oryzae* 6889  
*Tyrophagus putrescentiae* 852  
*Coniesta ignefusalis*, Niger 9717  
insect pests, resistance 7693  
intercropping  
groundnuts, pest control 11939  
pigeon peas, effects, insect pests 11781  
*Mythimna separata* 8626
- Pennisetum clandestinum**  
*Cenusa quiliicii*, Reunion 692  
*Listronotus bonariensis*, resistance 6852  
*Poa melanoe* 5402
- Pennisetum glaucum** (see *Pennisetum americanum*)
- Pennisetum polystachion**, insect pests 8618
- Pennisetum purpureum**, insect pests 8618
- Pennisetum typhoides** (see *Pennisetum americanum*)
- Penstemon newberryi**, *Occidryas chalcidona*, Colorado 3861
- Penstemon strictus**, *Occidryas chalcidona*, Colorado 3861
- Pentachlorophenol**  
effects  
*Brachionus plicatilis* 10611  
*Ceriodaphnia dubia* 10611  
*Lepomis macrochirus* 9603  
*Oryzias latipes* 5331  
*Paramecium aurelia* 10611  
*Xenopus laevis* 1347  
metabolism, *Tetrahymena* 5330  
residues  
man, urine 480  
*Pinus sylvestris* 5671  
residential areas, monitoring 255  
water 5107  
toxicology, man 479
- Pentaclethra macroloba**, extracts, effects, *Helicoverpa zea* 8508
- (8Z,10E)-8,10-Pentadecadien-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (8E,10Z)-8,10-Pentadecadien-1-ol acetate** mixtures, effects, *Acrobasis vaccinii* 7061  
pheromones, *Acrobasis vaccinii* 7061
- (8Z,10Z)-8,10-Pentadecadien-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (8E,10E)-8,10-Pentadecadien-1-ol acetates**, pheromones, *Acrobasis vaccinii* 7061
- Pentadecane**, *Holothrips*, physiology, secretions 4934
- (S)-2-Pentadecanoyl acetate**, synthesis 523
- (Z)-7-Pentadecene**, *Holothrips*, physiology, secretions 4934
- (Z)-8-Pentadecen-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (E)-9-Pentadecen-1-ol acetate** pheromones, *Acrobasis vaccinii* 7061  
mixtures, effects, *Acrobasis vaccinii* 7061
- (Z)-9-Pentadecen-1-ol acetate**, pheromones, *Acrobasis vaccinii* 7061
- (Z)-11-Pentadecen-4-olide** pheromones, Lepidoptera 11687  
synthesis 11687
- Pentadecyl acetate**, pheromones, *Acrobasis vaccinii* 7061
- Pentalonia nigronervosa**  
*Alpinia purpurata* 10996  
bananas, Egypt 3550  
control 10996  
biological control 7489  
*Musa*, Tonga 7489  
plant pathogens, transmission 7489
- Pentamerismus**, taxonomy, synonyms, of *Oligomerismus* 1830
- Pentamethylbenzene**, effects, *Spodoptera frugiperda* 8126
- Pentastichus**, taxonomy 1807
- Pentatomidae**  
California 10684  
control 10684  
evolution 5843  
Japan 975  
low input agriculture, effects 10684  
morphology 4893, 5843  
mouthparts 1862  
Nicaragua 10316  
physiology, cuticle 4905  
taxonomy 5843
- Penthaleus**  
Australia 11405  
biology 11405
- Penthaleus major**  
control, biological control 11755  
fodder plants, Victoria 11757  
food plants  
damage 11704  
varietal reactions 11704  
forecasting 9681  
pastures  
New South Wales 11755  
Western Australia 11756  
yield losses 11756  
wheat, Henan 9681
- Penthalodidae**  
Australia 9053  
taxonomy 9053
- Penthetria**, taxonomy 11123
- Penthicoides seriatorporus**, groundnuts, Gujarat 11940
- Pepliphorus**, taxonomy 31
- Pepliphorus cyanea**, taxonomy 31
- Pepper (Capsicum)** (see *Capsicum*)
- Pepper (Piper)** (see *Piper nigrum*)
- Peppermint** (see *Mentha piperita*)
- Peptides**  
effects  
*Drosophila* 11232  
*Mythimna separata* 7098
- Perch**  
organochlorine compounds, residues 9611  
pesticides, residues 3400
- Peregrinus maidis**  
biology 9698  
behaviour 561  
control  
chemical control 7689  
cultural control 5429  
maize 9698  
plant pathogens, transmission 11735  
sorghum 11735  
Andhra Pradesh 561  
India 8654  
Maharashtra 5429, 7689  
resistance 561, 8654
- Peribatodes rhomboidaria**  
morphology, melanism 2876  
UK 2876
- Pericallia ricini**  
insecticides  
effects 1326  
pathogenicity 7458
- Peridroma saucia**  
1,2-dibenzoyl-1-tert-butylhydrazine, toxicity 1389  
diets 2255, 4380, 10018  
plant extracts  
antifeedants 10018  
effects 11699  
toxicity 430  
plant oils, effects 2255, 4380
- Perileucoptera coffeella**  
coffee  
Cuba 1621-1622  
Minas Gerais 3606, 5595  
Parana 4643  
Puerto Rico 11959  
varietal susceptibility 11959  
control, chemical control 1622, 3606  
ecology, environmental factors 1621  
sampling 4643, 5595
- Perilissus**, hosts, Symphyta 4840
- Perilissus anatinus**  
Mexico 4840



***Perilissus anatinus* cont.**

morphology 4840

***Perilissus nudus***

morphology 4840

South America 4840

taxonomy, new species 4840

***Perilitus coccinellae* (see *Dinocampus******coccinellae*)*****Perillus bioculatus***

biology

behaviour 6195

functional responses 4102

*Chrysothamnus*, habitats, Colorado 4465control, *Leptinotarsa decemlineata*, pota-

toes 9775, 9783

insecticides, effects 9775

prey

*Leptinotarsa decemlineata* 4102*Trihabda nitidicollis* 4465***Perillus exaptus****Chrysothamnus*, habitats, Colorado 4465prey, *Trihabda nitidicollis* 4465***Periophthalmus dipus*, insecticides, effects**

10582

***Periphyllus californiensis****Acer amoenum*

damage 8885

Japan 8885

***Periplaneta americana*, prey, *Litoprosopus******futilis* 3674****Permethrin**

analysis 5112

control

*Acantholyda erythrocephala*, *Pinus*

394

*Anthonomus eugenii*, *Capsicum**annuum* 3527*Chrysodeixis includens* 1474

soyabeans 7731

Coleoptera, *Plectorhynchus mediter-**raneus*, commodities 8991

insect pests

cabbages 7776

soyabeans 9750

tomatoes 7789

*Ips typographus*, *Picea abies* 6795

Isoptera 7492

Lepidoptera

*Eucalyptus urophylla* 4695

sapidillas 5563

*Neoleucinodes elegantalis*, tomatoes

9811

*Ostrinia nubilalis*, maize 10708-

10709

*Phthorimaea operculella*, potatoes

3503

*Pieris brassicae*, cauliflowers 618*Plutella xylostella*, cabbages 2525*Scrobipalpula absoluta*, tomatoes

2535, 4530

*Thrips tabaci*, onions 7765degradation, *Capsicum* 6614

determination 7572

effects

*Acantholyda erythrocephala* 394

algae 8533

*Calosoma alternans* 7569

Coleoptera 10038

mice 4320, 7580

*Nomuraea rileyi* 4144*Procambarus* 11634

rats 8539

*Steinernema feltiae* 7396

Tetranychidae 10618

formulations 6337

analytical methods 10333

mineralization, soil 4338

mixtures, control, *Plutella xylostella*, cab-

bages 2525

nontarget effects

Braconidae 7521

Hymenoptera 2525

soil arthropods 3369

residues

barley straw 3369

cauliflowers 618

dwellings 7606

foods, analytical methods 10331

leafy vegetables 3513

okras 5512

synthesis 4236

**Permethrin cont.**

resistance

*Aphis gossypii* 10552*Chrysodeixis includens* 588

Delphacidae 1001

*Ganaspidium utilis* 9612*Helicoverpa armigera* 10546*Leptinotarsa decemlineata* 4269,

9223, 10547

*Neoseiulus longispinosus* 449*Plutella xylostella* 447, 9580, 9582*Sitophilus zeamais* 8515

retention, apples 2553

synergism 7731

toxicity

*Aphis gossypii* 6625

Apidae 9600

carp 10607

Crustacea 6373

*Cylas formicarius* 11601

Eulophidae 7577

*Helicoverpa zea* 7545

Heteroptera 8492

insect pests 6548

Noctuidae 8684

*Ostrinia nubilalis* 9579*Rhyzopertha dominica* 10037

sorghum 2437

*Steinernema carpocapsae* 7583

Tephritidae 7521

***Perna viridis*, pesticides, residues 10606*****Peromyscus leucopus***

insecticides, effects 9605

prey, Lepidoptera 9605

***Peromyscus maniculatus*, insecticides,****effects 3375, 8553*****Persea***

Cecidomyiidae, Japan 6802

extracts, growth regulators, *Spodoptera**litura* 5369***Persea americana* (see *Avocados*)*****Persea indica***

extracts

effects, insect pests 804

insecticidal properties 6824

toxicity, *Drosophila melanogaster*

804

insecticidal properties 804

***Persimmons* (*Diospyros kaki*)**

habitats, beneficial insects, New Zealand

640

*Pseudococcus*, New Zealand 640***Perthida glyphopa***

biology, reproduction 5640

*Eucalyptus marginata*

resistance 8870

Western Australia 5640, 8870

**Peru***Calycophyllum spruceanum*, *Leuronota**calycophylli* 5654*Canopus* 1065*Cylapus* 188guavas, *Euscelus spiniger* 9902*Myrciaria dubia*, Hemiptera 6671oil palms, *Pleseobyras bicincta* 5573*Plectra* 3004

potatoes

insect pests 3506, 5473

*Premnotrypes* 8709*Selenaspis articulatus* 7488**Pest control***Allium*, Poland 1501*Anethum graveolens* 8964

apples 10851

asparagus, Netherlands 623

bananas, books 5773

bedding plants 6920

biotechnology 2206

books 6935

broccoli, Guatemala 11812

buildings, models 5262

cabbages, Texas 11812

California 382

*Capsicum*

books 11070

India 3677

carnations 785

*Carum carvi* 8954

celery, Netherlands 7779

cereal grains 8018

commodities, expert systems 3143

**Pest control cont.**

cereal grains cont.

India 847, 1781

*Citrus*, Shanxi 10877

climatic change, models 7481

coconuts, conferences 5763

coffee

Kenya 3601, 9943

Mexico 3605

*Colocasia esculenta*, New Caledonia

8719

conferences 9028

cotton 3616

Cameroon 2635, 6734

Cote d'Ivoire 3610

Maharashtra 2623

Tanzania 10926

USA 3623

crops

books 6933

conferences 8031

Germany 3317

West Africa 9032

Cuba 2209

Cucurbitaceae, Queensland, books 5777

cut flowers 869

decision making, models 9405

*Diabrotica*, USA 2316

economic thresholds 10471

equipment 11400

essential oil plants 6818

evaluation 11394

expert systems 5253

faba beans, Poland 1552

fatty oil plants, Uttar Pradesh 3572

field crops 858

Netherlands 1283

Ontario 8480

reports 860

forest trees, Quebec, reports 5760

fruit crops 2545

fruit trees, Italy 7804

fruit vegetables, Poland 1513

fruits 2577

New Zealand 7807

genetic engineering 2231

grain legumes, commodities, Tamil Nadu

5752

grapes

Australia 9038

Japan 11874

Washington 3545

greenhouse crops

North Carolina 12021-12022

Poland 1286

groundnuts

Australia 9043

books 9043

China 9919

Maharashtra 6712, 8809

hazelnuts 2589

hops 3147

horticultural crops 866, 11064

commodities 8992

economics 381

Hungary 2389, 10459

Japan 465

kenaf 2643

lawns and turf

Georgia 4757

Honshu 5685

legislation, New Zealand 6293

legumes, reports 2794-2796

lettuces 6594

*Litchi*

Israel 2586

South Africa 8791

loquats 2810

lucerne, South Dakota 5781

maize

commodities

Cameroon 1773

Cote d'Ivoire 2788

mangoes 882

Asia 8789

medicinal plants 6818

microbial pesticides, reviews 10468

models 3151

New Zealand 531

nurseries 9035

onions, China 10797



**Pest control** *cont.*

- orchards, reviews 643, 668
- ornamental plants
  - reviews 784
  - Washington 3663
- Paullinia cupana*, Brazil 798
- pears 9027
- Phaseolus vulgaris*, Colombia 6540
- Phlox* 884
- pigeon peas, Bihar 594
- pineapples 3719
  - Queensland 2584
- Pinopsida
  - bark 10052
  - Canada 7934
- Piper betle* 6819
- plant extracts, reviews 11565
- plantation crops, India, reports 1782
- Poland 1284
- pome fruits, Italy 3534, 7808
- potatoes 10786
  - books 11076
  - Germany 1491
  - Poland 2503
  - South Australia 5761
- Queensland, reports 11062
- rape, Poland 2591
- raspberries, Washington 4570
- reviews 6063
- rice 2830
  - Arkansas, reports 6903
  - Cambodia 10744
  - Cote d'Ivoire 7694
  - Goias 9721
  - reports 857, 2798
- Sahel, books 893
- Sedum* 6921
- seeds 8028
- shallots, Indonesia 9794
- small fruits, Washington 1550, 3541
- soyabeans, books 12089
- spice plants 3678
- spices, commodities, Tamil Nadu 5752
- Sri Lanka 1461
- stone fruits, Italy 7823
- stored products 3702, 6934
- sugarbeet
  - Netherlands 697
  - Poland 9931
- sugarcane, reports 859, 2800
- sunflowers
  - Croatia 1594
  - Poland 2593
- sweet potatoes, Sierra Leone 1499
- tea, India 867, 2614, 5591
- temperate fruits 868
  - models 639
  - Netherlands, reports 853
- tomatoes
  - Pennsylvania 8731
  - Venezuela 7786
- trapping 2389
- tree fruits, France 1529
- tropical crops 856
- tropical fruits 6675
- Vaccinium*
  - Canada 8769
  - USA 8769
- Vaccinium macrocarpon*, North America 8770
- vegetables 6137, 12087
  - conferences 6908
  - Indonesia 5290
  - New York 6908
  - Poland 1298
  - wheat, Sweden 2410

**Pest management** (*see also* Integrated pest management)

- books 6935
- computer techniques 8447
- forecasting 6108
- peaches, California 654

**Pest resistance**

- Aphididae 1451
- apples, rootstocks 10845
- Baculovirus*, genetic engineering 2430
- biotechnology 401
- Brassica campestris* 6591
- crops 5269, 6283
- effects, parasitoids, development 4418

**Pest resistance** *cont.*

- genetic engineering 2230, 7501, 9534-9535
- insect pests 1290
- integrated pest management 1291
  - conferences 1289
  - reviews 3300
- lucerne 6523
- maize 6468
- models 400
- Pelargonium* 7966-7967
- Pinopsida 10967
- plants
  - reviews 10482
  - toxins 11552
- potatoes 865
  - Poland 2499
  - techniques 10785
- reviews 2234, 5270
- screening 4422, 6449
- simulation models 6450
- sorghum 1450
- sugarcane, reports 2801
- testing 2399
- tobacco, genetic engineering 2621, 7885, 9946
- transgenic plants 2232
- vegetables 1412
- Pestalotiopsis*, vectors, insect pests 4623, 5573
- Pesticidal plants**
  - bibliographies 2819
  - books 2818
- Pesticidal properties**
  - Annonaceae, extracts 5280
  - plant extracts, reviews 5276
- Pesticide resistance**
  - arthropod pests 1319, 4246
  - arthropods 7527
  - beneficial insects 1319
  - reviews 9591
- Pesticides**
  - additives, analysis 10505
  - adjuvants 10504
  - air pollution, Czech Republic 7607
  - analysis 2046, 5112, 11630
  - reviews 2352
  - application 2070, 3161, 7494, 9408
  - aerial application 9409
  - environmental impact 10525
  - fogging 11874
  - helicopters 8325
  - risk assessment 10525
  - safety 2260, 7494
  - sprays 394, 3172, 3560-3561, 5119
  - testing 3162
  - Asia, reports 3714
  - assessment, sprays 7298-7299
  - books 875, 2826, 6930
  - carriers, degradation, *Passer domesticus* 9607
  - chemical composition, analysis 2254
  - conferences 11069
  - consumption, birds 11645
  - control
    - arthropod pests
    - fruits 2545
    - peaches 1548
    - pests, crops 3723
  - databases 406
  - degradation
    - microorganisms, reviews 4233
    - soil 511, 1375, 5365
    - water 9642, 10574
  - detection 10597
    - crops 9393
    - fabia beans 9396
  - determination 7572
  - Zambia 462
  - development
    - Europe 10530
    - reviews 6348
  - directories 4815, 11559
  - disposal, safety 3326
  - economic impact, Developing Countries 416
  - effects
    - assessment 1358-1359
    - birds 8567
    - carp 7560
    - cyanobacteria 9621

**Pesticides** *cont.*

- effects *cont.*
  - environment 895, 3401
  - reviews 10662
- grasslands 483
- man 473, 476, 1356, 1359-1361, 7593, 8560, 10627, 11636
  - reviews 10571
- mangoes 669
- mitochondria 4235
- monitoring 1360
- olives 8807
- Opius concolor* 3371
- Passer domesticus* 3374
- soil enzymes, reviews 9639
- soil invertebrates, books 3739
- environmental impact 2370
  - models 506
  - reviews 6384
- evaluation, books 3738
- exposure
  - assessment 5106, 9385
  - man 5350
- food contamination, reviews 2361
- formulations 426, 449, 875, 3362, 3374, 6294
  - granules 6301
- India 3312
- information 486
- labelling, Cameroon 6300
- legislation 1386, 5274
  - Europe 10530
  - Germany 7525
  - Oregon 9551
  - Spain 7523
- stored products 7601
- Sweden 10523
- USA 1385, 2265, 10525
- losses, soil, assessment 10664
- malathion, protective clothing, techniques, analysis 3139
- man, nontarget effects, reviews 1361
- mixtures 8489
  - application 8348
  - interactions, models 8459
  - legislation 10499
  - mode of action, models 8458
  - models 10500
  - toxicity
    - aquatic organisms 5319
    - rodents, testing 8568
- mode of action 2273
- movement
  - models 3155
  - water, models 4063
- nontarget effects
  - aquatic organisms 11666
  - beneficial arthropods, assessment 4282
  - books 2823, 3735
  - Colinus virginianus* 11627
  - conferences 1789
  - Diglyphus isaea* 2212
  - Encarsia formosa*, assessment 4093
  - environment 1792, 10665, 11669-11670
  - fowls 9627
  - man 1357-1358, 3370, 4281
  - USA 2306
  - nontarget organisms 508
  - plants, assessment 5101
  - predatory insects 2576
  - soil, reviews 10657
  - vertebrates, assessment 4283
  - wildlife 3362
- packaging 1355
- poisoning
  - man 7600, 8532, 8544, 9624, 10570
  - wildlife 7604
- pollutants, reviews, wetlands 2357
- productivity, USA 418
- protective clothing 1354
  - testing 3159
- registration
  - Canada 5101
  - Italy 1305, 3313
  - Netherlands 5285
  - USA 10529
- regulations 11558
- Maryland 417
- storage life 4813



**Pesticides cont.**

- research 6302
- residues 3345
  - Africa 7618
  - air 8582
  - analysis 3315, 9394, 12096-12097
  - analytical methods 1171
  - aquatic environment 10659
  - aquatic organisms 1379
  - Australia 4311
  - birds 263
  - commodities, reports 5762
  - crops 9394
  - detection 3138
  - determination 487, 499, 5735-5736, 9636
  - environment 510, 7608, 10064, 10664
    - analysis 3396
    - biosensors 8587
  - ewe milk 7555
  - foliage, determination 3146
  - foods 1338, 5733, 9618, 11630
    - determination 9604
  - greenhouses 3406
  - groundwater 505, 9638, 9640
    - books 6931
    - leaching 3405
  - horticultural crops, techniques, determination 12067
  - legislation 10599
    - water 11660
  - marine environment 3389
  - marine mammals 472
  - meat products, Spain 2298
  - milk 8516
  - Philippines 7610
  - rice, fields 1459
  - soil 487, 512
    - determination 10658, 10666
  - surface water 499
  - vegetables
    - commodities 5736
    - extraction 3513
  - waste water 7612
  - water 486, 492, 783, 6386, 7620, 9647, 12096-12097
    - determination 4335
    - removal 5107
  - wildlife 9630
  - wines 5735
- resistance, arthropod pests 4246
- risk, assessment 2265
- safety
  - man 7568, 8524
  - USA 10533
- screening 10600
- sensors 6132
- soil, extraction 9410
- spray booms 3157
- sprayers 3158, 3160-3165, 3167, 3169, 3171
  - models 3166
- storage, Germany 2270
- toxicity
  - animals 5318
  - assessment 11656
  - Colinus virginianus* 2326
  - evaluation 4235
  - man 10525
  - Oryzias latipes* 7596
  - Rana limnocharis* 2308
  - statistical analysis 264
- UK
  - directories 6932
  - legislation 8485
  - uptake, plants 10565
  - usage 6276, 6916
    - Argentina 3298
    - Bangladesh 6344
    - Canada, reports 8030
    - Cyprus 1315
    - economics, USA 10524
    - Egypt 10665
    - forests, Oregon 9967
    - Georgia 3586
    - Germany 3323, 3728, 10508
    - Indonesia 5290
    - Latin America 9620
    - Minnesota 7574
    - models 4243
    - Netherlands 4243, 6346

**Pesticides cont.**

- usage cont.
  - Netherlands cont.
    - models 10475
  - Poland 6347
  - safety, USA 419
  - Sweden 6306, 10523
  - Thailand 3325
  - Tunisia 6555
  - Turkey 1317
  - UK 6294
    - USA 3623, 4757, 6280
  - volatilization, soil 9648
  - water, determination 7599
- Pests, vegetables, Canada, books 6925
- Petalidium setosum*, seeds, insects, Namibia 3684
- Petalidium variabile*, seeds, insects, Namibia 3684
- Petiveria alliacea*, extracts, effects, *Sitophilus zeamais* 3676
- Petroleum oil**, control, *Aspidiotus*, tea 5590
- Petrophila drumalis*
  - Pistia stratiotes*, Florida 3694
  - taxonomy, to *Argyragactis* 4831
- Petroselinum crispum* (see Parsley)
  - insect pests, Florida 6832
- Petrova albicapitana*, Pinopsida, Quebec 759
- Peucedanum arenarium*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum austriacum*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum coriaceum*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum longifolium*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum officinale*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum oreoselinum*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum ostruthium*, extracts, effects, *Spodoptera littoralis* 5382
- Peucedanum palustre*, extracts, effects, *Spodoptera littoralis* 5382
- Peucezia**
  - Africa 923
  - taxonomy, revisions 923
- pH**, effects, *Ceratitis capitata* 9155
- Phacelia*, parasitoids 8090
- Phacelia tanacetifolia*, fields, beneficial insects, UK 7496
- Phacopterionidae**, Nicaragua 10295
- Phaedon affine*, parasitoids 336
- Phaedon armoraciae*, biochemistry, secretions 7053
- Phaedon cochleariae*
  - biochemistry, secretions 7053
  - biological control agents, evaluation 3291
  - insecticides, effects 11589
  - pathogens 3291, 4158
  - plant extracts, effects 10345
- Phaenops*, taxonomy 10090
- Phaeogenes**
  - hosts, *Zeiraphera* 3662
  - Larix*, forests, Hebei 3662
- Phaeogenes cynarae*, hosts, *Platyptilia carduidactyla* 5725
- Phagostimulants**
  - Bacillus thuringiensis*, interactions 6259
  - effects
    - Helicoverpa zea* 8604
    - Lepidoptera 6259
- Phalacridae**
  - biology, feeding 11715
  - cereals, fields, Denmark 11715
- Phalacrocorax auritus*, insecticides, effects 2291
- Phalacrocorax pelagicus*, insecticides, effects 2291
- Phalacrotophora berolinensis*, hosts, Coccinellidae 7358
- Phalacrotophora fasciata*, hosts, Coccinellidae 7358
- Phalangida**, *Pinus rigida*, forests, New Jersey 9984
- Phalaris**
  - Apamea unanims*, Ontario 5456
  - Noctuidae, North America 5456
- Phalaris aquatica*
  - insect pests
    - damage 6515

**Phalaris aquatica cont.**

- insect pests cont.
  - New Zealand 6515
- Phalera flavescens*, biochemistry, chemical composition 1000
- Phaleria testacea*
  - biology 1985
  - Rio de Janeiro 1985
- Phalerodonta manleyi*
  - hosts, *Phalerodonta manleyi* 9063
  - Japan 9063
  - parasitoids 9063
- Phalonidia rubricana* (see *Pierca rubricana*)
- Phanacis taraxaci*, *Taraxacum officinale*, galls 2760
- Phanaeus sensifer*
  - genetics, karyotypes 5983
  - Sao Paulo 5983
- Phanerotoma**
  - hosts
    - Caryedon serratus* 8850
    - Coleoptera 8850
    - Conopomorpha sinensis* 10885
    - Didia* 8850
    - Lepidoptera 8850
    - Prophantis smaragdina* 3604
    - Litchi chinensis*, orchards, Taiwan 10885
- Phanerotoma major*
  - hosts, *Maliarpha separattella* 1212
  - rice, habitats, Africa 1212
  - taxonomy, synonyms, *Phanerotoma saussurei* 1212
- Phanerotoma ocularis*, hosts, *Ephesia kuehniella* 53
- Phanerotoma saussurei*
  - hosts, *Maliarpha separattella* 1212
  - rice, habitats, Africa 1212
  - taxonomy, synonyms, of *Phanerotoma major* 1212
- Pharaxonotha**
  - cycads
    - Mexico 1638
    - pollination 1638
- Pharbitis purpurea*
  - Eumenotes obscura*, Malaysia 5686
  - insects 8098
    - North Carolina 1740
- Pharoscymnus flexibilis*
  - dates, habitats, Gujarat 7858
  - prey, insect pests 7858
- Pharoscymnus horni*
  - dates, habitats, Gujarat 7858
  - prey, insect pests 7858
- Pharoscymnus ovoides*, distribution, Iran 674
- Pharoscymnus setulosus*, distribution, Iran 674
- Phaseolus**
  - Chrysomelidae, Cuba 1479
  - commodities
    - Callosobruchus maculatus* 11047
    - insecticides, residues 5503
    - pesticides, residues 12085
    - Zabrotes subfasciatus* 10053
  - fields
    - Opius phaseoli*, Malawi 3499
    - Phytoseiidae, Portugal 6542
    - Frankliniella occidentalis* 236
    - Ophiomyia*, Malawi 3499
    - Ophiomyia phaseoli* 10770
    - Polyphagotarsonemus latus*, damage 1478
    - Tetranychus*, Portugal 6542
- Phaseolus lunatus**
  - Epilachna varivestis* 6528, 9546
  - El Salvador 8694
  - fields, beneficial insects, El Salvador 8694
  - insecticides, translocation 3338
  - Liriomyza sativae* 6019
  - Tetranychus urticae* 4477
- Phaseolus radiatus* (see *Vigna radiata*)
- Phaseolus vulgaris**
  - Acrosternum apicicorne*, Argentina 11773
  - Aphididae, Venezuela 5463
  - Aphis fabae*, Kenya 6541
  - Belgium, reports 2789, 2791
  - Bemisia tabaci* 3988
  - Costa Rica 628-629
  - Florida 11774



**Phaseolus vulgaris** cont.  
  *Bemisia tabaci* cont.  
    varietal susceptibility 11772  
  *Chauliops nigrescens* 4478, 7739  
  Coleoptera 7740  
  commodities  
    *Acanthoscelides obtectus* 5742, 12066  
    *Zabrotes subfasciatus*, resistance 8027  
  *Delia platura*, Belgium 2789, 2791  
  *Empoasca fabae*, resistance 2491  
  *Empoasca kraemeri*  
    Colombia 2490  
    resistance 2490  
  *Epilachna varivestis* 6543  
    El Salvador 8694  
    Maryland 4476  
  extracts, effects, Coleoptera 9163  
  fields  
    beneficial insects, El Salvador 8694  
    predatory arthropods, Maryland 9755  
    predatory insects, Kenya 6541  
  *Frankliniella occidentalis* 3305  
  *Halotydeus destructor* 3487  
  *Helicoverpa armigera* 2256  
  *Helicoverpa zea* 9483, 9706  
  insect pests 7738  
    control, cultural control, reviews 9532  
    Cuba 8695  
    Maryland 9755  
    resistance 591  
    reviews 9757  
    South Africa 9757  
  insecticides, residues 9596  
  *Isotoma notabilis*, Germany 6088  
  *Ledesmodina auricollis*, Venezuela 7737  
  *Liriomyza trifolii* 10275  
  *Mononychellus tanajoa* 11702  
  *Ophiomyia spencerella*, Rwanda 590  
  *Oulema variabilis* 917  
  pest control, Colombia 6540  
  pest resistance 6283  
  pollen, *Euseius finlandicus* 4121  
  *Polyphagotarsonemus latus*, damage 4385  
  *Spodoptera frugiperda* 4475  
  *Tetranychus okinawanus*, Ryukyu Archipelago 10107  
  *Tetranychus urticae* 1178  
    damage 9756  
    predators 8740  
    resistance 2399  
  *Thrips palmi*  
    Florida 11775  
    Venezuela 624, 5462  
  *Trialeurodes vaporariorum* 9596  
    Colombia 5461  
  *Zabrotes subfasciatus* 4479  
**Phasmarhabditis hermaphrodita**  
  control  
    *Deroceras reticulatum*  
      evaluation 4136  
      field crops 10807  
      wheat 546  
    Gastropoda, lettuces 10810  
    slugs, wheat 4405  
  hosts  
    invertebrates 4136  
    slugs 350, 4405  
  rearing techniques 351  
**Phasmatodea**  
  morphology 2873  
  phylogeny 2873  
**Phasmida**  
  bibliographies 6140  
  embryology, microscopy 2049  
**Phassus jianglingensis** (see *Endoclitia jianglingensis*)  
**Phaulacridium vittatum**, pathogens 3257  
**Phaulomyces simplicariae**, hosts, *Simplicaria semistriata* 2154  
**Pheidole**  
  America 8354  
  Argentina 4023  
  biology, behaviour 3046, 3061  
  cotton, fields, Kenya 1626  
  ecology 1191, 3046, 4023, 7902  
  distribution 6050  
  fields, Kenya 6050, 6427  
  forests  
    Costa Rica 3046  
    Espirito Santo 7902  
**Pheidole** cont.  
  *Miconia*, interactions 5137  
  New Mexico 1191  
  pastures, Colombia 5457  
  prey  
    *Aeneolamia* 5457  
    *Helicoverpa armigera* 1626, 6050, 6427  
  rain forests, Costa Rica 5137  
  seeds, interactions 3061  
**Pheidole dentata**  
  ecology, communities 4699  
  *Solenopsis invicta*, interactions 3189  
  Texas 4699  
**Pheidole megacephala**  
  *Alpinia purpurata* 10996  
  cocoa, plantations, Ghana 4645  
  coconuts  
    plantations  
      Tanzania 9915  
      Tonga 10899  
  control 10996  
  *Coptotermes formosanus*, interactions 6205  
  *Dysmicoccus brevipes*, interactions 3562  
  interactions  
    Hemiptera 4645  
    *Oecophylla longinoda* 9915  
  monitoring, traps 4642  
  plantation crops, Cuba 4642  
  plantations, Hawaii 3562  
  prey, *Graeffea crouanii* 10899  
**Pheidole oliveirai**  
  biology, behaviour 7897  
  control, *Anthonomus grandis*, evaluation 7897  
  cotton, habitats, Sao Paulo 7897  
**Pheidole pallidula**  
  biochemistry, volatile compounds 292  
  biology, behaviour 7064  
  pheromones 7064  
  predators 292  
**Pheidole radoszkowskii**  
  biology, behaviour 11408  
  *Ectatomma ruidum*, interactions 5134  
  Nicaragua 5134  
  parasitoids 9073  
  *Solenopsis geminata*, interactions 11408  
**Phellinus, Dorcatoma minor**, Central Europe 6962  
**Phellinus tremulae**, *Aceria parapopuli*, interactions 10947  
**Phellodendron amurense**  
  extracts, effects, *Papilio* 10676  
  *Kihadaia rufithorax*, Honshu 10105  
**Phenacoccus herreni**  
  cassava, Colombia 2514  
  predators 2514  
**Phenacoccus longoi**  
  *Abies alba*, Italy 4744  
  taxonomy, new species 4744  
**Phenacoccus manihoti**  
  biology, behaviour 4498  
  cassava  
    Congo 8712  
    Nigeria 1498  
    resistance 8712  
    varietal susceptibility 609  
    Zambia 6567  
    Zimbabwe 8713  
  control, biological control 1498, 6567  
  distribution, Zimbabwe 8713  
  ecology, population dynamics 6567  
  food plants 4498  
    resistance 5480, 8712  
  Formicidae, interactions 6567  
  parasitoids 3837, 5157  
  physiology, cardiovascular system 3837  
**Phenacoccus solani**, pineapples, South Africa 1575  
**Phenanthrene**, effects, *Spodoptera litura* 5281  
**Phenethyl alcohol**, mixtures, attractants, *Anomala octiescostata* 2766  
**Phenethyl propionate**  
  attractants  
    Cerambycidae 6801  
    *Popillia japonica* 6054  
  mixtures, attractants, *Anomala octiescostata* 2766  
**Phenol**, mixtures, effects, *Schistocerca gregaria* 9179  
**Phenolic compounds**, effects, *Sitobion avenae* 11720  
**Phenolic glucosides**, attractants, Chrysomelidae 7923  
**Phenothiazine**, residues, honey 9601  
**Phenothrin**  
  effects, *Corycia cephalonica* 11048  
  resistance, *Tribolium castaneum* 432  
  toxicity  
    Heteroptera 8492  
    stored products pests 833  
**3-Phenoxybenzoic acid**  
  metabolism, chickens 2330  
  residues, tea, commodities 6886  
**Phenthoate**  
  control  
    *Deudorix isocrates*, mandarins 7843  
    insect pests, cowpeas 9771  
    Lepidoptera, cotton 1634  
    *Mythimna separata*, rice 2467  
    *Phthorimaea operculella*, potatoes 3503  
    *Scrobipalpus absoluta*, tomatoes 4530  
    *Uroleucon carthami*, safflower 3580  
    *Zeuzera pyrina*, olives 1604  
  effects, predatory insects 9771  
  toxicity  
    *Penaeus japonicus* 9625  
    *Pseudaulacaspis pentagona* 1584  
**Phenylacetaldehyde**  
  effects, *Agrotis segetum* 5834  
  mixtures  
    attractants  
      *Anomala octiescostata* 2766  
      insect pests 5419  
**Phenylacetone**  
  mixtures  
    attractants, *Anomala octiescostata* 2766  
    effects, *Schistocerca gregaria* 9179  
**D-Phenylalanine**, effects, *Bactrocera cucurbitae* 7029  
**2-Phenylethanol**, attractants, *Apomyeloides ceratoniae* 4604  
**β-Phenylethyl propionate**, attractants, *Anaglyptus subfasciatus* 4372  
**Pheromones** (see also individual types of pheromones)  
  *Aiolopus thalassinus* 4961  
  Arctiidae 1889  
  attractants  
    *Bactrocera oleae* 6710  
    *Carpophilus* 7822  
    *Cylas formicarius* 11802  
  bioassays 7310  
  control, insect pests, tea 2615  
  effects  
    *Agrotis segetum* 5834  
    *Rhagoletis cerasi* 7080  
  Formicidae 9178  
  Lepidoptera 1400  
    reviews 2388  
  *Lincus* 4885  
  *Linepithema humile* 9310  
  mixtures, attractants, Lepidoptera 9703  
  oil palms, extracts, interactions 4622  
  production, Russia 11688  
  release 11554  
  *Schistocerca gregaria* 7169, 9179  
  synthesis 266, 270, 523, 1400, 2050, 3142, 3304, 4357, 7059, 7891, 9181, 10167, 10344  
**Pheropsophus jessoensis**  
  ecology, population dynamics 5439, 5545  
  figs, orchards, Honshu 5545  
  monitoring, traps 5439  
  rice, fields, Honshu 5439  
**Phidippus clarus**  
  prey, insect pests 11742  
  rice, fields, Colombia 11742  
**Phidippus regius**  
  biology, behaviour 3045  
  prey, insect pests 3045  
**Phigalia sinuosaria** (see *Apocheima sinuosaria*)  
**Philadelphus lewisii**, *Choristoneura rosaceana* 6008



- Philaenus spumarius**  
biochemistry, chemical composition 339  
*Erigeron glaucus*, California 6842  
insects as food 339  
Michigan 339
- Philanthaxia**, taxonomy 5811
- Philanthus barbatus**  
biology, behaviour 9292  
Colorado 9292
- Philanthus crabroniformis**  
biology, behaviour 9292  
Colorado 9292
- Phileurus**  
genetics, karyotypes 5983  
Sao Paulo 5983
- Philidris**  
*Dischidia major*, Malaysia 10289  
ecology, habitats 10289
- Philippines**  
*Acacia*, *Acizzia* 2682  
*Acacia mangium* 6766  
*Blastophaga* 10103  
*Brassica*, *Plutella xylostella* 11814  
cabbages, fields, predatory arthropods 5494  
*Calliandra calothyrsus*, insect pests 2681  
crops  
  *Bactrocera occipitalis* 9893  
  *Bactrocera philippinensis* 9892  
*Diaspididae* 4860  
*Eucalyptus deglupta*, insect pests 2658  
*Ficus*, *Kradibia* 10102  
*Ficus benjamina*, *Macrohomotoma* 7000  
*Ficus chrysolepis*, pollinators 671  
forest trees, *Diplosocus* 14  
insecticides, usage 7702  
integrated pest management 5264  
mangoes, *Sternochetus frigidus* 11906  
pesticides, residues 7610  
*Pseudococcus* 11088  
*Pyrilidae* 11246  
*Rhantus* 1820  
rice  
  *Chilo suppressalis* 6485  
  *Cnaphalocrocis medinalis* 2455  
  *Elenchus japonicus* 4447  
  fields, predatory arthropods 8664  
  insect pests 3457, 7702, 7713  
  invertebrates 572  
  *Nephotettix virescens* 11740  
  *Pelopidas mathias* 6409  
  pesticide residues 1459  
  pesticides, usage 476  
  *Pomacea* 2444-2445  
  *Pomacea canaliculata* 3473  
  *Scirpophaga incertulas* 6484  
  *Sogatella furcifera* 8664  
  Thysanoptera 11743  
*Rivellia* 4048  
sweet potatoes, *Cylas formicarius* 4988  
Thysanoptera 6977
- Phillyrea angustifolia**  
*Schizomyia phillyreae*  
galls 8888  
Spain 8888
- Philonthus**  
Austria 2027  
biochemistry, secretions 4936  
prey, *Rhopalosiphum padi* 2406  
taxonomy 2027
- Philonthus cognatus**, prey, Aphididae 5161
- Philosamia cynthia** (see *Samia cynthia*)
- Philosamia cynthia ricini** (see *Samia cynthia ricini*)
- Philosamia ricini** (see *Samia cynthia ricini*)
- Phintella bifurcilinea**  
ecology, population dynamics 8820  
tea, plantations, Hunan 8820
- Phintella versicolor**, prey, *Empoasca*  
*pirisuga* 8384
- Phlaeothripidae**  
Central Europe 3779  
morphology 6977  
Philippines 6977
- Phleum pratense**  
hay, *Mayetiola destructor* 6872  
*Listronotus bonariensis*  
damage 6508  
New Zealand 6508  
*Phyllobius*  
damage 11760
- Phleum pratense** cont.  
*Phyllobius* cont.  
Sweden 11760
- Phlibostroma quadrimaculatum**  
control, chemical control 5261  
grasslands, Arizona 5261
- Phloeosinus aubei**  
control 10977, 12031  
ornamental conifers, Switzerland 12031  
ornamental woody plants, Austria 10977
- Phloeosinus thujae**  
control 10977, 12031  
ornamental conifers, Switzerland 12031  
ornamental woody plants, Austria 10977
- Phloeotribus dentrifrons**  
*Celtis tenuifolia*, Ontario 818  
distribution, Canada 818
- Phloeotribus scarabaeoides**  
attractants, effects 8463  
biology 2597  
ecology 2595  
control, integrated control 6709  
monitoring 2595  
olives  
  Morocco 2595  
  Spain 2078, 2597, 4628, 6709  
parasitoids 2078  
pheromones, recording instruments 7310  
physiology, nervous system 7310  
plant extracts, attractants 4628
- Phlox**  
books 884  
Miridae, USA 12054  
pest control 884
- Phlox subulata**, Miridae, USA 12054
- Phlyctinus callosus**  
apples, South Africa 11852  
control, chemical control 11852
- Phobocampe**, hosts, *Ladoga camilla* 8288
- Phobocampe phlerodontae**  
Japan 9063  
taxonomy, new species 9063
- Phoca groenlandica**, insecticides, residues 6354
- Phoca siberica**, insecticides, residues 4322
- Phoca vitulina**, insecticides, residues 2047, 5341, 6357
- Phocoena phocoena**  
insecticides, residues 2047  
pesticides, residues 5328
- Phoenicococcidae**  
Russia 4837  
taxonomy 4837
- Phoenicococcus marlatti**  
dates, Gujarat 7858  
parasitoids 7858  
predators 7858
- Phoenicopterus roseus**, insecticides, residues 5323
- Phoenix canariensis**, *Metamasius hemipterus*  
*sericeus*, Florida 2239
- Phoenix dactylifera** (see Dates)
- Phoenix reclinata**, *Cephrenes augiades*  
*sperthias*, Victoria 10995
- Phoetaliotes nebrascensis**  
biochemistry  
  membranes 10162  
  nutrition 8144  
biology, behaviour 7719  
grasses 2473  
*Pascopyrum smithii*, Colorado 4454  
pathogens 4213  
physiology, nutrition 2473  
plant extracts, antifeedants 7719
- Pholcus phalangoides**, morphology, cardiovascular system 7010
- Pholetesor ornigis**, hosts, *Phyllonorycter* 645
- Pholiota aurivella**, *Oxyporus stygicus*, Illinois 1738
- (+)-Phomalactone**  
effects  
  entomogenous fungi 4149  
  Tephritidae 4149
- Phoracantha**  
*Eucalyptus*, Australia 5172  
parasitoids 4112, 5172
- Phoracantha recurva**  
*Eucalyptus*, South Africa 9971  
parasitoids 9971
- Phoracantha semipunctata**  
biology 9972
- Phoracantha semipunctata** cont.  
control, integrated control 6814  
distribution, California 6754  
*Eucalyptus* 9972  
  Australia 5172  
  California 6753-6754, 6814  
  Italy 5639  
  resistance 6753  
  South Africa 9971  
parasitoids 5172, 5639, 9971  
predators 5639
- Phoradendron**, Curculionidae, Mexico 4853
- Phorate**  
control  
  *Anomala dimidiata*, soyabeans 4471  
  *Helicoverpa armigera*, cowpeas 9767  
  *Holotrichia*  
    groundnuts 685  
    potatoes 11792  
  insect pests  
    cassava 4483  
    rice 6480  
    sugarcane 11951  
  *Melanagromyza sojae*, soyabeans 9749  
  *Ophiomyia phaseoli*, peas 11776  
  Pyrilidae, sugarcane 1616, 3588, 3591  
  *Sciothrips cardamomi*, cardamoms 7988  
  *Scirpophaga excerptalis*, sugarcane 4639
- effects  
  *Helix aspersa* 8566  
  herbicide resistance 9714  
  plant parasitic nematodes 9749  
  potatoes 599  
  commodities 6902  
  rice 8666  
  soil, microorganisms 9633  
  soyabeans 7730  
  herbicides, interactions 6902  
  interactions, herbicides 2316  
  mixtures, control, cardamoms, *Sciothrips cardamomi* 7988  
nontarget effects  
  *Anas platyrhynchos* 11612  
  *Perillus bioculatus* 9775  
  soil 11659  
residues  
  determination 463  
  sarson 1608  
  soil 1608, 6480  
toxicity, *Triclionia picea* 9557
- Phorbia**  
Europe 5788  
taxonomy 5788
- Phoridae**  
attractants 6396  
ecology, population dynamics 3680  
Hawaii 6396  
hosts, Coccinellidae 7358  
morphology 4881  
mushrooms  
  damage 3680  
  India 3680
- Phormia regina**, parasitoids 1092
- Phormia terraenovae**, physiology, muscles 980
- Phorocera obscura**  
Czech Republic 2107  
heavy metals, effects 2107  
hosts, *Operophtera brumata* 2107
- Phorodon humuli**  
biology 11007  
  migration 6657  
crops, Washington 11007  
ecology, population dynamics 6835  
forecasting 6657  
growth regulators, effects 4349  
hops  
  Spain 6835  
  Washington 6834  
monitoring, traps 11007  
plums, UK 6657  
predators 6834
- Phosalone**  
control  
  arthropod pests, peaches 11864  
  *Cydia pomonella*, apples 8756  
  *Helopeltis antonii*, cashews 5569



Phosalone cont.

control cont.  
insect pests 8480  
apples 5519  
cotton 7896  
peas 1480  
soyabeans 3494  
*Lagenaria siceraria* 6615  
Lepidoptera, sapodillas 5563  
*Lipaphis erysimi*, rape 5572  
*Lygus*, *Anethum graveolens* 8963  
*Metcalfa pruinosa*, fruits 11854  
*Mythimna separata*, rice 2467  
*Sciothrips cardamomi*, cardamoms 7989  
*Uroleucon carthami*, safflower 3580  
effects  
*Bemisia tabaci* 5297  
Coleoptera 1310  
man 8531  
*Nilaparvata lugens* 1310  
formulations, water hardness, effects 3324  
mixtures, control, arthropod pests, peaches 11864  
nontarget effects  
beneficial insects 3494  
Neuroptera 2122  
Phytoseiidae 5519  
residues  
commodities 10577  
*Vigna radiata* 9768  
resistance  
*Aphis gossypii* 10551  
*Helicoverpa armigera* 5609  
synergists  
effects, *Helicoverpa armigera* 8501  
interactions 5283  
toxicity  
*Apis mellifera* 11619  
*Cylas formicarius* 11601  
*Epilachna vigintioctopunctata* 10015  
Noctuidae 8684  
*Sitophilus oryzae* 5283

Phosfolan, toxicity, *Apis mellifera* 3361

Phosmet

control  
*Aoraisa scutellaris*, grapes 9861  
arthropod pests  
crops 11706  
pastures 11706  
nontarget effects, predatory mites 9839  
residues, kiwifruits 9901  
toxicity  
*Anastrepha fraterculus* 8457  
*Chrysoperla rufilabris* 4318  
*Hippodamia convergens* 8798

Phosphamidon

control  
*Abacarus sacchari*, sugarcane 5584  
*Aleurocanthus woglumi*, mandarins 5557, 7844, 11894  
*Bemisia tabaci*, *Capsicum* 10830  
*Chilo tumidicostalis*, sugarcane 11952  
*Diaphorina citri*, oranges 8783  
*Dudua aprobola*, *Litchi chinensis* 5559  
*Helicoverpa armigera*, cowpeas 9767  
insect pests, peas 1480  
Lepidoptera, cabbages 1509  
*Lipaphis erysimi*  
Indian mustard 5497, 5698  
sarson 1502  
*Macrochirus praetor*, *Daemonorops hystrix* 2737  
*Mythimna separata*, rice 2467  
*Myzus persicae*, tobacco 5599  
*Pieris brassicae*, cabbages 8726  
*Pseudaulacaspis pentagona*, fruits 11844  
*Sitotroga cerealella*, rice 6490  
*Stephanitis typicus*, bananas 11889  
degradation, cyanobacteria 2309  
determination 10329  
effects  
*Caliothrips indicus* 11941  
man 6355  
interactions, sodium chloride 1472  
mixtures  
control, *Sitotroga cerealella* 6490  
effects, cotton 8839

Phosphamidon cont.

residues, Indian mustard 680  
resistance, Aphididae 7543  
toxicity  
*Aphis gossypii* 6625  
*Cheilomenes sexmaculata* 11611  
*Cnaphalocrocis medinalis* 11586, 11744  
*Gambusia affinis* 8525  
Pentatomidae 1472  
sorghum 2437  
Phosphine  
analysis 1173  
control  
*Anthonomus grandis*, cotton, commodities 10047  
*Caryedon serratus*, groundnuts 6870  
Coleoptera, soyabeans, commodities 12069  
*Leptinotarsa decemlineata*, commodities 10050  
*Mayetiola destructor*, hay 6872  
*Prostephanus truncatus* 1770  
stored products pests 395, 835  
flours 6881  
wheat, commodities 9007, 11049  
determination 1182  
permeability, polyethylene 8482  
residues, wheat, commodities 6881  
resistance  
Coleoptera 10210  
*Lasioderma serricorne* 8019  
*Rhyzopertha dominica* 9556  
toxicity  
Coleoptera 1331  
*Liposcelis entomophilus* 4798  
man 11641

Phosphorus fertilizers, effects, Lepidoptera 3612

Phostoxin, toxicity, Coleoptera 8890

Photinia glabra, Acari, Victoria 1639

Photinus marginellus, parasitoids 4111

Photinus pyralis, genetics, gene transfer 1942

Photobacterium phosphoreum, insecticides, toxicity 450, 10616

Photorhabdus

culture techniques 7410, 7485  
entomophilic nematodes, symbionts 4196  
transmission, *Heterorhabditis* 9490

Photorhabdus luminescens

culture techniques 7404  
discrimination 7417  
*Heterorhabditis*, interactions 7401  
hosts, *Galleria mellonella* 9503

Photuris

Maryland 3004  
microorganisms 3004

Phoxim

control  
*Ceroplastes ceriferus*, tea 3599  
*Holotrichia parallela*, strawberries 7831  
*Lygus lucorum*, tea 7881  
*Mimastra cyanura* 7175  
*Phthorimaea operculella*, potatoes 3503  
metabolism, soyabeans 8689  
mixtures, resistance, *Myzus persicae* 11575  
nontarget effects, Araneae 6169  
resistance, *Helicoverpa armigera* 10542  
synergists 11575  
Phradis interstitialis  
hosts, *Ceutorhynchus pallidactylus* 2130  
wheat, fields, Germany 2130

Phradis morionellus

hosts  
*Ceutorhynchus pallidactylus* 2130  
*Meligethes* 8801  
rape, fields, Sweden 8801  
wheat, fields, Germany 2130  
*Phradonoma nobile*, stored products, China 11037  
*Phragmataecia castaneae*  
biology, life cycle 10927  
control 10927  
Hunan 10927  
*Phragmatobia*, distribution, North America 8306

Phragmatobia fuliginosa

morphology, reproductive organs 59  
pyrrolizidine alkaloids, metabolism 4928

Phragmites

*Apamea unanimitis*, Ontario 5456  
Noctuidae, North America 5456

Phragmites australis

*Archanara*, Germany 1745  
arthropods, Europe 812  
insects  
galls 1753  
Germany 1753  
*Lipara lucens*  
Europe 7997  
galls 7997  
natural enemies, Austria 11017

Phragmites communis (see Phragmites australis)

Phratora polaris

forest trees 1655  
predators 1655

Phratora purpurea purpurea, *Populus grandidentata*, Maryland 744

Phratora vitellinae

forest trees 1655  
plant extracts, attractants 7923  
predators 1655  
*Salix* 7923

Phrenapetinae, biochemistry, cuticle 5943

Phrurolithus festivus

distribution, China 11365  
Liaoning 11365

Phrydiuchus tau

biology 3693  
*Salvia aethiopis*, Idaho 3693

Phtherochroa cranaodes

apples, Rio Grande do Sul 4076  
diets 4076  
rearing techniques 4076

Phthorimaea operculella

*Bacillus thuringiensis*, toxins, effects 4172  
biology 5475  
behaviour 7761, 11793  
environmental factors 7227, 11710  
life cycle 8708  
reproduction 3507  
control 3506, 4485, 6559, 10788, 12074  
biological control 4527, 5260  
chemical control 3503, 3510, 8711  
integrated control 5473, 7784  
cotton, resistance 5268  
ecology  
distribution 2620  
population dynamics 4388, 6559, 7755, 9774  
Egypt 1272  
food plants 4487  
Israel 4388  
Turkey 11710  
India 7227  
insecticides, toxicity 1316  
integrated control 7785  
monitoring, traps 11793  
parasitoids 1316, 7755  
pathogens 5475, 6562, 7441, 7755, 9500, 10417  
pheromones 3834  
potatoes 6562, 8708, 10788  
commodities 3507, 12074  
India 5475  
Costa Rica 601, 9777  
damage 5260, 9777  
Greece 8711  
Himachal Pradesh 3510  
Karnataka 4485  
Maharashtra 3503, 11793  
Peru 3506, 5473  
resistance 4492  
Tunisia 6555  
Ukraine 6559, 9774  
Yemen 7755  
predators 5475, 7755  
*Solanum*, resistance 7761  
tobacco, China 2620  
tomatoes  
Israel 4527, 7785  
resistance 5268  
Venezuela 7784  
transmission, plant pathogens 1272

Phucobius, biochemistry, secretions 4936



- Phycitinae**, distribution, Belize 4834
- Phygadeuon ursini**  
*Allium ursinum*, habitats, Germany 7263  
 biology, life cycle 7263  
 hosts 7263
- Phygadeuon yonedai**  
 geographical distribution, Korea Republic 301  
 hosts, *Delia antiqua* 301  
 Korea Republic 301
- Phylactophaga froggatti**  
*Eucalyptus*, resistance 6752  
*Eucalyptus globulus*  
 resistance 5641  
 Victoria 5641
- Phyllaphis fagi**  
 biology 9973  
*Fagus sylvatica*  
 Belgium 9973  
 Germany 8876  
 resistance 8876
- Phyllobius**  
 grasslands  
 damage 11760  
 Sweden 11760
- Phyllobius pomaceus**  
 control, biological control 7830  
 strawberries, Germany 7830
- Phyllocnistis**  
*Salix*  
 New York 5650  
 resistance 5650
- Phyllocnistis citrella**  
*Aegle marmelos*, Uttar Pradesh 9662  
 biology  
 development 5552  
 environmental factors 3071, 6677
- Citrus*  
 Arunachal Pradesh 9891  
 damage 9889  
 Florida 3551, 11896  
 Hunan 9889  
 Maharashtra 6681  
 Northern Territory 1565  
 resistance 6681, 9891  
 control, chemical control 1565, 11896-11897  
 distribution, Florida 3551, 10879  
 forecasting 3071  
 grapefruits, Florida 10879  
 integrated pest management  
 China 4584  
 reviews 4584
- lemons  
 damage 5552  
 India 5552
- limes  
 Florida 11897  
 Gujarat 6677
- oranges, Guangxi 3071  
 parasitoids 10135
- Phyllocnistis puyehuenis**  
 Chile 5794  
 taxonomy, new species 5794
- Phyllocolpa**  
 parasitoids 3646
- Salix*  
 galls 1675, 3646, 5650  
 New York 3646, 5650  
 resistance 3646, 5650  
 taxonomy 1675
- Phyllocolpa eleanorae**  
 parasitoids 6761
- Salix sericea*  
 New York 6761  
 resistance 6761
- Phyllocolpa nigrita**  
 parasitoids 3646, 6761
- Salix*  
 galls 3646  
 New York 3646  
 resistance 3646
- Salix sericea*  
 New York 6761  
 resistance 6761
- Phyllocolpa terminalis**  
*Salix*  
 galls 5650  
 New York 5650  
 resistance 5650
- Phyllocoptes bougainvilleae**  
 ornamental woody plants  
 Brazil 10984  
 damage 10984
- Phyllocoptes vitis**  
 control, chemical control 9869  
 grapes, Spain 9869
- Phyllocoptura kuangii**, taxonomy, synonyms, *P. sapii* 3727
- Phyllocoptura oleivora**  
*Citrus*, Florida 7850, 11896  
 control, chemical control 4589, 11896  
 oranges, Florida 4589  
 sampling 7850
- Phyllocoptura sappi**, taxonomy, synonyms, of *P. kuangii* 3727
- Phyllonorycter**  
 apples, California 2551  
 biology, life cycle 657  
 control, chemical control 657  
 ecology  
 environmental factors 11995  
 population dynamics 4737
- Myrica*  
 damage 657  
 Zhejiang 657  
 parasitoids 2551, 9422  
*Quercus*, New Mexico 4737  
*Salix lasiolepis*, Arizona 11995  
 UK 9422
- Phyllonorycter blancardella**  
 apples  
 Missouri 645  
 New York 3535, 4553  
 Ontario 646  
 Yugoslavia 1539  
 biology 7808  
 environmental factors 646  
 control 7808  
 physical control 4553  
 monitoring, traps 1539  
 parasitoids 271, 645  
 pome fruits, Italy 7808  
 rearing techniques 271  
 sampling 3535
- Phyllonorycter corylifoliella**  
 apples, Yugoslavia 1539  
 monitoring, traps 1539
- Phyllonorycter crataegella**  
 apples  
 Connecticut 9837  
 Missouri 645  
 parasitoids 645, 9837
- Phyllonorycter elmaella**, insecticides, resistance 7548-7549
- Phyllonorycter hamadryadella**  
 parasitoids 11353
- Quercus*, Virginia 11353
- Phyllonorycter leucographella**  
 biology, dispersal 12029  
 distribution, UK 8946  
 parasitoids 9422  
*Pyracantha*, UK 8946, 12029  
 UK 9422
- Phyllonorycter malella**  
 apples 7209  
 biology, behaviour 7209  
 parasitoids 7209
- Phyllonorycter mespilella**  
 apples  
 British Columbia 8758  
 Washington 8757  
 parasitoids 8758
- Phyllonorycter platani**  
 distribution, UK 8946  
 parasitoids 9422  
*Platanus*, UK 8946  
 UK 9422
- Phyllonorycter ringoniella**  
 apples  
 China 10848, 11847  
 Liaoning 9830  
 control 11847  
 chemical control 9830  
 integrated control 10848  
 monitoring, traps 11847
- Phyllonorycter robiniella**  
 biology 2685  
 distribution, Europe 2685  
*Robinia pseudoacacia*, Italy 2685
- Phyllonorycter salicifoliella**  
*Salix*  
 New York 5650  
 resistance 5650
- Salix sericea*  
 New York 6761  
 resistance 6761
- Phyllopertha horticola**  
 biology 2448  
 distribution, Nei Menggu 8673  
 grasslands, Nei Menggu 8673  
 rice  
 Himachal Pradesh 2448  
 yield losses 2448
- Phyllophaga**  
 control 9858  
 strawberries, Chile 9858
- Phyllophaga anxia**  
 natural enemies 302  
 Quebec 302
- Phyllophaga crinita**  
 biology 11711  
 cereals, Mexico 11711
- Phyllophaga ephila**  
 biological control agents, evaluation 5482  
 control  
 biological control 5482  
 chemical control 5482  
 pathogens 5482  
 sweet potatoes, South Carolina 5482
- Phyllophaga menetriesii**, potatoes, Costa Rica 601
- Phyllophaga obsoleta**, potatoes, Costa Rica 601
- Phyllophaga reinhardi**  
 biology 11711  
 cereals, Mexico 11711
- Phyllophaga rugosa**  
 biochemistry, chemical composition 339  
 insects as food 339  
 Michigan 339
- Phyllophaga trichodes**  
 biology 11711  
 cereals, Mexico 11711
- Phyllophaga vexata**  
 biology 11711  
 cereals, Mexico 11711
- Phyllostachys bambusoides**, *Poanes melane* 5402
- Phyllotreta**  
 fertilizers, effects 3578  
 sugarbeet, Czech Republic 5588  
 turnip rape, Finland 3578
- Phyllotreta cruciferae**  
 biochemistry, proteinases 8803  
*Brassica* 10897  
 resistance 7770  
 Brassicaceae, resistance 2402  
 Canada 6338  
 control, cultural control 1591  
 food plants  
 Manitoba 4390  
 resistance 4390  
 insecticides, resistance 6338  
 pathogens 10897  
 plant growth regulators, effects 8802  
 rape  
 Canada 4619  
 induced resistance 8802  
 North Dakota 1591  
 resistance 4619
- Phyllotreta striolata**  
 control, physical control 6564  
 rape  
 Canada 4619  
 resistance 4619  
 turnips, Honshu 6564
- Phylloxeridae**  
 Africa 2828  
 books 2828  
 taxonomy 2828
- Phylodryas olfersii**, *Acromyrmex subterraneus*, interactions 5053
- Phymastichus coffea**  
 biology, life cycle 3915  
 hosts, *Hypothenemus hampei* 3600, 3915
- Phymata americana**  
 biology, behaviour 7189  
 interactions, Hymenoptera 4779  
*Solidago odora*, habitats, New York 4779
- Physa fontinalis**, retinoic acid, effects 954



*Physalis angulata*, *Heliothis* 10265  
*Physalis peruviana*  
extracts  
antifeedants, insects 8607  
growth regulators, *Helicoverpa zea* 5372, 6393  
insecticidal properties 5372  
*Physalis viscosa*, *Lema melanofrons* 917  
**Physical control**  
*Anoplocnemis curvipes*, mangoes 10882  
*Antigastra catalaunalis*, sesame 6716  
*Biprorulus bibax*, lemons 664  
*Ephesia kuehniella*, stored products 2771  
insect pests, greenhouse crops 7781  
*Spilarctia obliqua*, sunflowers 7865  
aeration, insect pests, maize, commodities 6874  
bagging, insect pests, *Alpinia purpurata* 10996  
barriers  
*Anastrepha fraterculus*, *Acca sellowiana* 4605  
Aphididae, marrows 10836  
arthropod pests, apples 4553  
*Cadra*, dates 3540  
*Cicadella viridis*, fruits 11840  
*Forficula auricularia*, *Acacia longifolia* 2720  
insect pests  
*Annona muricata* 4599  
apples 4551  
*Iridomyrmex*, oranges 11892  
*Leptinotarsa decemlineata*, potatoes 6553  
*Phyllotreta striolata*, turnips 6564  
*Vitacea polistiformis*, grapes 9866  
cold storage, *Anastrepha suspensa*, *Pouteria campechiana*, commodities 12084  
collection, *Spodoptera littoralis*, eggs, cotton 5602  
controlled burning, Hemiptera, lucerne 9744  
covers  
Acari, strawberries 7833  
*Bemisia tabaci*, tomatoes 626  
insect pests, strawberries 7835  
strawberries, arthropod pests 7834  
drilling, *Cornitermes cumulans*, pastures 4457  
hot water treatment, *Anastrepha suspensa*, *Pouteria campechiana*, commodities 12084  
nets, insect pests, vegetables 1274  
netting  
Aphididae  
crops 6419  
parsley 8965  
trenching, *Leptinotarsa decemlineata*, potatoes 4486  
**Physidae**  
Honshu 348  
predators 348  
**Phytoalexins**, insecticidal properties 6311  
*Phytobia lateralis*, parasitoids 8090  
*Phytolacca dodecandra*, extracts, molluscicidal properties 802  
*Phytoliriomyza jacarandae*  
*Jacaranda mimosifolia*, Argentina 10982  
parasitoids 10982  
*Phytomona*, vectors, *Lincus tumidifrons* 7867  
*Phytomyza artemisivora*  
*Artemisia vulgaris*, Belgium 2025  
distribution, Belgium 2025  
*Phytomyza atricornis* (see *Chromatomyia horticola*)  
*Phytomyza bipunctata*  
distribution, Belgium 2025  
*Echinops*, Belgium 2025  
*Phytomyza horticola* (see *Chromatomyia horticola*)  
*Phytomyza krygeri*  
*Aquilegia vulgaris*, Netherlands 2730  
distribution, Netherlands 2730  
parasitoids 2730  
*Phytomyza rufipes*  
rape  
Poland 3575  
resistance 3575  
*Phytophthora*, vectors, *Azteca chartifex* 10910  
**Phytoplankton**, insecticides, effects 4346, 7584  
*Phytoptus avellanae*  
biology 11917  
control 4613  
chemical control 11917  
hazelnuts  
America 9907  
damage 11917  
Europe 9907  
Italy 4613  
Poland 11917  
*Phytosciara arisaemae*  
*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810  
*Phytosciara insolita*  
*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810  
*Phytosciara megumiae*  
*Arisaema serratum*, Japan 6810  
taxonomy, new species 6810  
*Phytosciara unguolata*  
*Arisaema serratum*, Japan 6810  
distribution, Japan 6810  
**Phytoseiidae**  
apples, orchards, Norway 9831  
biology  
behaviour 4354  
development 11287  
embryonic development 1866  
oviposition 11287  
reproduction 5173  
cassava, fields, Congo 6565  
coffee, habitats, Queensland 5596  
ecology  
environmental factors 2512  
habitats 652, 3418  
France 1209  
hazelnuts, orchards, Italy 4613  
morphology, abdomen 61  
orchards, Finland 652  
pesticides, effects 9831  
prey  
Aphididae 6565  
*Mononychellus tanajoa*, predators 2513  
Tetranychidae 2512  
rearing techniques 2513  
taxonomy 1209, 5815, 8056  
woody plants, Korea Republic 3418  
**Phytoseiinae**  
biology  
development 11287  
oviposition 11287  
**Phytoseiulus**  
biology  
behaviour 5180  
development 11287  
oviposition 11287  
*Phytoseiulus fragariae*, biology, life cycle 3219  
*Phytoseiulus longipes*, biology, life cycle 3219  
*Phytoseiulus macropilis*  
apples, orchards, Poland 5519  
biology, life cycle 3219  
ecology, habitats 652  
insecticides, effects 5519  
orchards, Finland 652  
*Phytoseiulus persimilis*  
apples, orchards, South Africa 5522  
biology 8740  
behaviour 3200, 4355, 8263, 8275-8277  
life cycle 3219  
reviews 11841  
control  
*Tetranychus kanzawai* 5541  
*Tetranychus urticae*  
*Gerbera jamesonii* 1714  
raspberries 9852  
strawberries 4573  
crops, greenhouses 5174  
ecology  
models 3136  
population density 12024  
field crops, habitats, Italy 5174  
food plants 8740  
fungicides, toxicity 11867  
*Phytoseiulus persimilis* cont.  
insecticides, effects 5541  
orchards, South Africa 11841  
pesticides, effects 11841  
*Phaseolus*, fields, Portugal 6542  
plant extracts, attractants 4355  
prey  
*Tetranychus cinnabarinus* 10371  
*Tetranychus urticae* 3136, 3200, 4355, 5522, 8263, 8275-8277, 8740, 11841, 12024  
raspberries, fields, British Columbia 9852  
*Rickettsiella phytoseiuli*, interactions 5223  
roses, greenhouses, New York 10980, 12024  
strawberries  
fields, Florida 4573, 11867  
greenhouses, Germany 10863  
tomatoes, resistance 3523  
*Phytoseius*, Japan 3106  
*Phytoseius fotheringhamiae*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868  
*Phytoseius guianensis*  
Brazil 2507  
prey, *Mononychellus tanajoa* 2507  
*Phytoseius macropilis* (see *Phytoseiulus macropilis*)  
*Phytoseius mori*  
distribution, Korea Republic 2036  
morphology 2036  
**Picea**  
*Choristoneura fumiferana*  
Canada 8921  
damage 8921  
*Dendroctonus micans*, UK 770  
forests, Mycetophilidae, Norway 8923  
habitats, Araneae, Hungary 3019  
*Hylobius abietis*, Czech Republic 12006  
pests  
Canada, books 891  
control 891  
damage 891  
*Pissodes strobi*, North America 757  
*Pristiphora abietina*, Austria 6797  
Scolytidae, Germany 12016  
*Picea abies*  
Aphididae, UK 8922  
*Cephalcia arvensis*, Italy 4736, 5677, 6796, 10970  
*Cephalcia fallenii*, Poland 7956  
*Cinara*, Bulgaria 755  
*Cinara pilicornis*  
Finland 5664-5665  
Switzerland 4738  
Coleoptera  
Germany 1649  
Norway 10974  
Sweden 1683  
*Dendroctonus micans* 5662  
France 1697, 8917  
forests  
Ichneumonidae, Italy 5677  
insects, Austria 10971  
*Medetera dendrobaena*, Germany 10972  
*Torymus*, Switzerland 9993  
habitats  
beneficial insects, Norway 7959  
predators, Sweden 5152  
*Hylobius abietis* 5623  
damage 6779  
Sweden 6779  
insect pests  
Finland 721  
Norway 7959  
Quebec 759  
Switzerland 9993  
insecticides, residues 4347, 10968-10969  
insects, Poland 1699  
*Ips* 2021  
Sweden 1698  
*Ips typographus*  
Austria 7957  
Germany 3660  
Slovenia 6795  
Lepidoptera, Slovakia 12015  
*Pissodes strobi*, Quebec 4719  
*Pityogenes chalcographus* 8918



***Picea abies* cont.***Pityogenes chalcographus* cont.

Germany 10972

*Pristiphora abietina*, Austria 10971

## Scolytidae

Austria 1701, 2709

Europe 8924

*Tydeus nyltebodensis*, Sweden 8057

wood, Coleoptera, Germany 1642

***Picea engelmannii****Choristoneura occidentalis*, Mexico 8896*Dendroctonus punctatus* 9994*Dendroctonus rufipennis*

Colorado 3656

outbreaks 3656

***Picea glauca****Choristoneura fumiferana*

damage 772

New Brunswick 772

*Dendroctonus punctatus*, North America

9994

*Dendroctonus rufipennis*, Alaska 771

insecticides

degradation 9983

residues 10973

monoterpenes, toxicity, *Dendroctonus*

12005

*Pissodes strobi*

British Columbia 9992

Quebec 4719

plantations, *Trichogramma*, New Brunswick 4740*Sacchiphantes abietis*

galls 7958

New Brunswick 7958

*Zeiraphera canadensis*

New Brunswick 775-776, 4739-4740,

6798

resistance 776

***Picea jezoensis****Adelges japonicus*

galls 2016, 4743

Hokkaido 2016

*Cephalcia isschikii*

damage 8919

Japan 8919

outbreaks 8919

*Ips typographus*, Hokkaido 8920***Picea x lutzii****Dendroctonus rufipennis*

Alaska 2707

damage 2707

***Picea mariana****Choristoneura fumiferana*

Maine 2690

Ontario 756

***Picea omorika****Dendroctonus micans* 5662*Pissodes strobi*

British Columbia 773

damage 773

***Picea orientalis*, *Dreyfusia nordmannianae***

183

***Picea pungens****Choristoneura occidentalis*

Colorado 8899

outbreaks 8899

***Picea rubens*, *Choristoneura fumiferana*,**

Maine 2690

***Picea sitchensis***

Aphididae 788

*Elatobium abietinum*

damage 2710

UK 2710, 6794

*Hylobius abietis*

damage 1700

UK 1700

*Pissodes strobi*

British Columbia 2706

resistance 2706, 4741

***Picea smithiana****Dioryctria abietella*, India 5663

forests, beneficial insects, India 5663

**Picornaviridae**

hosts

*Drosophila melanogaster* 2177*Laodelphax striatella* 4151

Pentatomidae 10434

taxonomy 2177

***Picrasma ailanthoides***

extracts

antifeedants, *Plutella xylostella* 5383toxicity, *Plutella xylostella* 5383**Picrotoxin**

effects

*Manduca sexta* 113*Schistocerca americana* gregaria

9212

***Pidonia tsuyukii***

ecology, environmental factors 5707

taxonomy, new species 5707

wild plants, Honshu 5707

***Piercea rubricana***

damage 7258-7259

ecology, population dynamics 7258-7259

Honshu 7258-7259

**Pieridae**

biology, flight 192

Colombia 5090

distribution, Costa Rica 2024, 4051

Panama 192

parasitoids 9066

Portugal 9066

South Asia 24

taxonomy 24, 6948

**Pieris**

cabbages

resistance 5488

Sweden 5488

Europe 7147

genetics, gene flow 7147

***Pieris brassicae***

alkaloids, repellents 3417

apples

control, chemical control 4547

UK 4547

biological control agents, evaluation 2526

biology

behaviour 3949, 4509, 11321

development 5500

*Brassica*, damage 5490

Brassicaceae 2923

Brussels sprouts 6582

UK 4509

cabbages 11810

Denmark 620, 7777

Himachal Pradesh 4513

Manipur 8726

cauliflowers, Himachal Pradesh 618

cold resistance 8392

control

biological control 7777

chemical control 618, 8726

ecology, population dynamics 4513

growth regulators, effects 11683

insecticides, effects 11618

Latvia 3260

leafy vegetables 5500

natural enemies 620

parasitoids 313, 3949, 3974, 6582, 8392,

9423, 10266, 11321, 11810

pathogens 3260, 3265

pheromones 2923

physiology

development 5860

diapause 7018

immune response 11212

predators 2526

UK 8392, 11618

vegetables, Greece 2526

***Pieris bryoniae* (see *Pieris napi bryoniae*)*****Pieris canidia***

pathogens 10414, 11510

physiology, excretory system 5904,

11510

***Pieris japonica****Stephanitis takeyai* 7637

Honshu 10000

***Pieris melele***

biology

behaviour 6030

environmental factors 6030

Honshu 6030

predators 7349

***Pieris napi****Bacillus thuringiensis*, toxins, toxicity

3255

biochemistry, enzymes 6576

biology, behaviour 219, 11312

China 5823

***Pieris napi* cont.**

genetics, population genetics 3901

Japan 3901

parasitoids 9423

pheromones 2923

plant extracts, effects 6576

***Pieris napi bryoniae***

China 5823

taxonomy 5823

***Pieris napi group***

Europe 7147

genetics, gene flow 7147

***Pieris napi oleracea****Alliaria petiolata*, Massachusetts 5717

biology, behaviour 1304, 4507

Brassicaceae 4507

plant extracts, effects 1304, 4507

***Pieris occidentalis* (see *Pontia occidentalis*)*****Pieris protodice***

biology, behaviour 7206

Colorado 7206

***Pieris rapae***

bacterial insecticides, toxicity 6245

biochemistry, enzymes 6576

biology

behaviour 1304, 4507, 10012, 10799

defence 2019

phenology 9797

*Brassica*, Virginia 9797

Brassicaceae 2019, 4507

Brussels sprouts 6043, 6582

Prince Edward Island 4515

cabbages 10799

damage 5492

Denmark 621

Prince Edward Island 10800

Quebec 7776

Shanghai 6339

control 4515

biological control 7776, 11812

chemical control 393, 7776, 10800

cultural control 621

*Erysimum cheiranthoides* 7518

food plants 10012

growth regulators, effects 792, 7623

Guangdong 393

heavy metals, toxicity 4767

insecticides, resistance 6339

leafy vegetables, America 11812

monitoring 10800

morphology 941

natural enemies 324

parasitoids 208, 313, 3945, 3974, 6043,

6582, 9423

pathogens 4515, 7776, 11527

pheromones 2923

physiology

development 7019

endocrine system 54

plant extracts

antifeedants 8609, 8822, 9660

effects 1304, 4507, 6576

predators 2019

*Rorippa indica*

damage 5713

Honshu 5713

*Streptanthus polygaloides* 4767*Thlaspi montanum*, resistance 792***Pieris rapae crucivora***

biology

behaviour 3989, 3992

reproduction 3802

cabbages, Hokkaido 6589

control, cultural control 6589

Honshu 3802

plant extracts, antifeedants 3416

***Pieris virginensis****Alliaria petiolata*, Indiana 5718

biology 5718

phenology 8247

Massachusetts 8247

***Pierretia* (see *Sarcophaga*)*****Piesma quadratum***

biology 696

plant pathogens, transmission 696

sugarbeet, Poland 696

***Piezodorus***

morphology 3792

reproductive organs 9088

taxonomy 9088



***Piezodorus guildinii***  
biology, behaviour 10758  
ecology, population dynamics 4472  
morphology, reproductive organs 9088  
soyabeans 10758  
Brazil 4472  
Parana 8690  
resistance 2486  
Sao Paulo 2486  
varietal susceptibility 8690  
taxonomy 9088

biology, environmental factors 7166  
morphology 4893  
    reproductive organs 9088  
Pakistan 4893  
soyabeans, Kyushu 7166  
taxonomy 9088

cowpeas  
Benin 6547, 6549  
damage 6549  
ecology, population dynamics 6547  
**Pigeon peas** (*Cajanus cajan*)  
| *Apion amplum*, Assam 9763  
*Callosobruchus chinensis*, damage 2774  
commodities

*Tyrophagus putrescentiae* 852  
*Exelastis atomosa*  
Maharashtra 5820, 11779  
resistance 11779

fields  
*Cotesia meghrangini*, Maharashtra  
 5820  
 Hymenoptera, Kerala 11780  
 parasitoids, Orissa 4660

## toxicity 4285

*Acantholyda erythrocephala*  
Auchenorrhyncha, Germ

## Curculio



- Pinus clausa* cont.**  
Curculionidae cont.  
Florida 8898
- Pinus contorta***  
damage 6785  
*Dendroctonus ponderosae*  
British Columbia 10962  
Canada 4725  
*Diprion pini* 4723  
Finland 6785  
*Hylobius warreni*  
Alberta 6790  
damage 6790  
pest resistance 10967  
*Thrips konoii* 919  
*Zeiraphera diniana*, UK 7950
- Pinus contorta* var. *latifolia***  
*Dendroctonus ponderosae*, British Columbia 7951  
*Ips pini*, British Columbia 767  
Scolytidae, British Columbia 769
- Pinus coulteri*, *Essigella eastopi* 4728**
- Pinus cubensis*, *Dioryctria horneana*, Cuba 8908**
- Pinus densiflora***  
forests, Collembola, Honshu 9989  
*Monochamus alternatus* 765  
Honshu 2694  
Japan 4732, 5668  
*Monochamus saltuarius*, Japan 8902  
*Polistes mandarinus*, Honshu 9980  
*Thecodiplosis japonensis*, East Asia 2705  
wood, *Coptotermes formosanus* 8996
- Pinus edulis***  
*Dioryctria albivittella*, Arizona 7939  
insect pests  
Arizona 10963  
varietal reactions 10963
- Pinus elliotii* 12080**  
insect pests  
Brazil 3629  
control, chemical control 6782-6783  
USA 6782  
*Sirex noctilio*, Argentina 2693  
wood, arthropods, New South Wales 1695
- Pinus excelsa*, *Prociphilus himalayensis*, India 1693**
- Pinus fenzeliana*, *Diplosocus*, Asia 14**
- Pinus gerardiana***  
*Dioryctria abietella*, India 5663  
forests, beneficial insects, India 5663
- Pinus halepensis***  
*Cryptolestes halevyae*, Mediterranean region 2691  
forests, *Elatophilus hebraicus*, Israel 12009  
*Matsucoccus josephi*  
Israel 12009  
Mediterranean Region 2697
- Pinus jeffreyi***  
*Dendroctonus*, California 6781  
*Dendroctonus jeffreyi* 4735  
*Essigella hillieristambersi* 4728
- Pinus koraiensis***  
insects, Korea Republic 7946  
*Monochamus alternatus* 765  
soil arthropods, Korea Republic 7946
- Pinus luchuensis*, *Aphrophora paguma*, Japan 6789**
- Pinus maestrensis*, *Dioryctria horneana*, Cuba 8908**
- Pinus massoniana***  
forests  
Coleoptera, Anhui 10290  
*Trichogramma dendrolimi*, Hunan 9969  
habitats, *Polyrhachis vicina*, Zhejiang 6787  
Hemiptera, Zhejiang 6787  
Lepidoptera, Hunan 9969
- Pinus mugo***  
Aphididae, Italy 9990  
*Cinara montanica*, Europe 1
- Pinus nigra***  
*Cinara brauni*, Bulgaria 755  
*Diprion pini* 4723
- Pinus nigra salzmannii*, *Cinara quadris*, Spain 12011**
- Pinus nigra* var. *caramanica*, *Rhyacionia buoliana*, Ukraine 6791-6792**
- Pinus palustris***  
Curculionidae  
damage 8898  
Florida 8898  
*Ips*, Texas 1694
- Pinus patula***  
Geometridae  
Colombia 8907  
damage 8907  
insect pests, Brazil 3629
- Pinus peuce*, *Cinara cembrae*, Bulgaria 755**
- Pinus pinaster***  
*Dioryctria sylvestrella*  
damage 2699, 8904  
France 2699, 8904  
*Matsucoccus feytaudi* 1395  
damage 7941  
France 5673, 7941  
Italy 5667  
*Monochamus galloprovincialis*, Italy 5674  
*Thaumetopoea pityocampa*  
damage 7940  
France 7940
- Pinus ponderosa***  
*Dendroctonus ponderosae* 4735  
Colorado 12013  
*Essigella fusca* 4728  
habitats, *Tomicobia tibialis*, California 7953  
*Ips paraconfusus*, Texas 1694  
*Ips pini*  
California 7953  
Idaho 5666  
*Neodiprion gillettei*, damage 4731
- Pinus radiata* 12080**  
Coleoptera, California 8913  
commodities, insect pests, New Zealand 1767  
*Diprion pini* 4723  
habitats, *Cephalonomia utahensis*, California 8913  
*Rhyacionia buoliana*, Chile 1691  
Scolytidae, California 10961  
wood, Isoptera 11045  
*Zootermopsis nevadensis*, California 768
- Pinus resinosa***  
*Acantholyda erythrocephala*, Ontario 4730  
*Ips pini*  
New York 4729  
resistance 10966  
Wisconsin 7953, 10966  
*Neodiprion sertifer* 7954
- Pinus rigida***  
forests, arthropods, New Jersey 9984  
*Slaterobius quadristriatus*, New Jersey 3659
- Pinus roxburghii***  
*Dioryctria abietella*, India 5663  
forests, beneficial insects, India 5663
- Pinus strobus***  
*Conophthorus coniperda*  
Ontario 9981  
USA 9981  
*Diprion pini* 4723  
*Hylobius pales* 2258  
insect pests, Quebec 759  
*Lymantria dispar* 3627  
*Pissodes strobi* 4726  
damage 2692  
Quebec 4719  
Wisconsin 2692
- Pinus sylvestris***  
arthropods, UK 2696  
*Bupalus piniarius*  
damage 8905  
Germany 8905, 9986  
*Cinara*, Bulgaria 755  
*Cinara pinea*, resistance 5670  
*Cinara pini*, Europe 1  
Coleoptera  
Germany 1649  
Norway 1692  
Sweden 1683  
Curculionidae, Sweden 6784  
damage 6785  
*Dendroctonus micans* 5662  
*Diprion pini* 4723  
damage 8903  
France 8903
- Pinus sylvestris* cont.**  
Diprionidae  
damage 2698  
Finland 2698  
Finland 6785  
forests, Coleoptera, Germany 7944  
habitats, Psocoptera, Spain 8855  
*Hylobius abietis* 5623  
damage 6779  
France 4734, 6780  
Sweden 6779  
*Hylobius radialis*  
damage 8915  
Manitoba 8915  
insect pests 763  
damage 7942  
Finland 721  
France 7942  
Sweden 2390  
*Ips pini*, New York 4729  
*Lygus rugulipennis*, damage 1687  
*Monochamus sutor* 1686  
*Neodiprion sertifer*  
Austria 4727  
Czech Republic 8909  
Sweden 7949  
*Panolis flammea*  
damage 8906  
Russia 8906  
pest resistance 6283  
pesticides, residues 5671  
*Pissodes piniphilus*, Finland 8910-8911  
*Rhyacionia buoliana*, Ukraine 6791-6792  
*Schizolachnus pinetti* 8367  
Finland 5664-5665, 7937  
Scolytidae  
France 2695  
Michigan 6793  
*Thaumetopoea pityocampa*, France 763  
*Thecodiplosis brachyntera*, Europe 2705  
*Tomicus*  
damage 761  
Sweden 761  
*Tomicus piniperda*  
damage 764  
Finland 764  
Indiana 9991  
resistance 2702  
Sweden 2390, 2702
- Pinus taeda***  
*Dendroctonus frontalis* 2703  
USA 9985  
Hemiptera  
Louisiana 7945  
outbreaks 7945  
insect pests  
Brazil 3629  
control, chemical control 6782  
USA 6782  
insecticides, degradation 9983  
*Neodiprion lecontei* 12012  
*Proisotoma minuta* 5676  
*Rhyacionia frustrana*, USA 4733  
*Sirex noctilio*, Argentina 2693  
wood  
arthropods, New South Wales 1695  
Coleoptera 8014
- Pinus taiwanensis*, forests, Coleoptera, Anhui 10290**
- Pinus thunbergiana*, *Matsucoccus thunbergiana*, Korea Republic 7947**
- Pinus thunbergii***  
*Matsucoccus thunbergiana* 12014  
Korea Republic 5672  
*Monochamus alternatus*, Honshu 2694, 7952  
*Thecodiplosis japonensis*, East Asia 2705
- Pinus tropicalis*, *Dioryctria horneana*, Cuba 8908**
- Pinus wallichiana***  
*Dioryctria abietella*, India 5663  
forests, beneficial insects, India 5663
- Pinus yunnanensis***  
*Anthaxia sinica*, China 1827  
*Tomicus piniperda*, Yunnan 10964
- Pinyon pine (see *Pinus edulis*)**
- Piper aduncum***  
extracts  
antifeedants, *Ostrinia nubilalis* 11701  
effects, Mollusca 3247



**Piper betle**  
books 6819  
*Cydia hemidoxa*, Andaman and Nicobar Islands 1718  
insecticides, residues 7990  
pest control 6819

**Piper decurrens**, extracts, antifeedants, *Ostrinia nubilalis* 11701

**Piper hispidum**, *Lamponius portoricensis*, Puerto Rico 3686

**Piper nigrum**  
*Cydia hemidoxa*  
damage 8962  
Kerala 810, 8962  
extracts  
effects, *Callosobruchus maculatus* 9003  
synthesis 11001  
toxicity, *Sitotroga cerealella* 8549  
*Longitarsus nigripennis* 12046  
pest control 3678

**Piper teleseanum**, *Lamponius portoricensis*, Puerto Rico 3686-3687

**Piper tuberculatum**, extracts, antifeedants, *Ostrinia nubilalis* 11701

**Piperonyl butoxide**  
carbofuran, interactions 491  
effects, *Penaeus japonicus* 9625-9626  
residues  
analysis 4796  
maize, commodities 4796  
pigs 5747  
poultry 8990  
wheat, commodities 5747  
resistance, *Tribolium castaneum* 432  
synergism 2278, 2784, 5291, 6336, 7731, 8507, 9008, 9959, 11575, 11651

**Pipilo erythrophthalmus**, prey, *Danaus plexippus* 5080

**Pipistrellus pipistrellus**, insecticides, residues 466

**Pipunculidae**, taxonomy 1808

**Pirata subpiraticus**  
biology, development 5437  
ecology, environmental factors 5437  
pesticides, effects 6169  
prey, *Nilaparvata lugens* 5437  
rice  
fields  
Hunan 6169  
Korea Republic 5437

**Pirate** (see 4-Bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile)

**Pirene chalybea**  
ecology, population dynamics 9759  
hosts, *Contarinia pisi* 9759  
monitoring, traps 9759  
peas, habitats, Switzerland 9759

**Pyrimicarb**  
control  
Aphididae  
cereals 1423  
parsley 8965  
sugarbeet 2610  
vegetables 6604  
wheat 545, 8632  
*Brevicoryne brassicae*, Indian mustard 1609  
insect pests  
apples 8753  
cowpeas 1488, 9771  
soybeans 3494  
*Rhopalosiphum maidis*, maize 554  
degradation 2262  
water 501  
determination 7322  
effects  
Carabidae 7660  
fishes 1352  
*Hydra viridissima* 11644  
*Larinioides scopetarius* 446  
*Linyphiidae* 7571  
predatory insects 9771  
exposure, man 11639  
nontarget effects  
Araneae 1423  
predatory mites 9839  
*Rana perezi* 7587, 10622  
residues  
man 9385

**Pyrimicarb cont.**  
residues cont.  
precipitation 4341  
soil, extraction 10514  
resistance  
*Aphis gossypii* 1320, 10550-10552  
*Myzus* 4976  
*Myzus persicae* 5608  
toxicity, insect pests 7541

**Pyrimiphos-ethyl**, nontarget effects, Araneae 6169

**Pyrimiphos-methyl**  
control  
arthropod pests, wheat, commodities 4802  
*Bemisia tabaci*, cotton 5612  
Coleoptera, maize, commodities 841  
insect pests  
cabbages 3515  
maize, commodities 10039  
*Sitophilus granarius*, wheat, commodities 6896  
stored products pests, wheat, commodities 9013  
*Trialetrodes vaporariorum*, cucumbers 4544  
effects  
cabbages 3346  
fungi 6376  
*Oreochromis niloticus* 2282  
rats 3365  
soil flora 6374  
*Tribolium castaneum* 3330  
residues  
cabbages 11813  
coffee, commodities 2787  
crops 2323  
determination 845  
maize, commodities 10039  
rice, commodities 845  
tomatoes 4528  
vegetables 9596  
resistance  
*Bracon hebetor* 9613  
*Hypothenemus hampei* 5293  
*Sitophilus zeamais* 8515  
*Tribolium castaneum* 432  
toxicity  
*Beauveria bassiana* 5247  
Coleoptera 4795  
*Trialetrodes vaporariorum* 9596

**Pyrimor** (see Pyrimicarb)

**Pisauridae**, checklists, Uruguay 8321

**Pisolithus tinctorius**, *Proisotoma minuta* 5676

**Pison**  
biology 4852  
New Zealand 4852  
taxonomy 4852

**Pissodes**, *Pinus sylvestris*, Sweden 6784

**Pissodes affinis**, genetics, mitochondrial DNA 11282

**Pissodes castaneus**  
parasitoids 757  
plant pathogens, transmission 3284

**Pissodes nemorensis**  
genetics, mitochondrial DNA 11282  
*Pinus*, South Africa 760

**Pissodes piceae**  
biology, life cycle 6024  
France 6024  
morphology 6024  
plant pathogens, transmission 3284, 6024

**Pissodes piniphilus**  
parasitoids 757  
*Pinus sylvestris*, Finland 8910-8911  
plant pathogens, transmission 8910-8911

**Pissodes schwarzi**, genetics, mitochondrial DNA 11282

**Pissodes strobil**  
biological control agents, evaluation 757  
biology 4726  
behaviour 4719  
overwintering 2701  
reproduction 4741  
conifers, North America 757  
control, cultural control 9992  
genetics, mitochondrial DNA 11282  
natural enemies 2701  
*Picea glauca*, British Columbia 9992

**Pissodes strobil cont.**  
*Picea omorika*  
British Columbia 773  
damage 773  
*Picea sitchensis*  
British Columbia 2706  
resistance 2706, 4741  
Pinopsida, Quebec 759, 4719  
*Pinus banksiana*, Ontario 2701  
*Pinus strobus* 4726  
damage 2692  
Wisconsin 2692

**Pissodes terminalis**  
biology, behaviour 9987  
genetics, mitochondrial DNA 11282  
*Pinus* 9987

**Pissonotus quadripustulatus**  
*Borrchia frutescens*, Florida 5706  
ecology, environmental factors 5706

**Pistachios** (*Pistacia vera*)  
*Apomyelois ceratoniae*, Iran 3571  
commodities, *Apomyelois ceratoniae* 3571  
*Plodia interpunctella* 10059  
*Teleiodes decorella*, Greece 8800

**Pistacia**, Aphididae, Israel 5567

**Pistacia atlantica**  
Aphididae  
galls 8893  
Israel 8893  
*Geioica*, galls 3570

**Pistacia chinensis**, *Eurytoma plotnikovi* 10006

**Pistacia mutica**, *Geioica*, galls 3570

**Pistacia palaestina**  
Aphididae  
galls 5568, 8893  
Israel 5568, 8893  
*Geioica*, galls 3570

**Pistacia terebinthus**  
*Agonoscyta targionii*  
damage 8938  
Spain 8938  
*Geioica*, galls 3570

**Pistacia vera** (see Pistachios)

**Pistia stratiotes**  
biological control agents, evaluation 6851  
insects, Florida 3694  
*Spodoptera pectinicornis* 6851

**Pisum**, *Neolema cordata* 917

**Pisum sativum** (see Peas)

**Pithecellobium ebano**  
Bruchidae  
damage 6768  
Mexico 6768

**Pithecellobium excelsum**, *Heteropsylla pulchella*, Ecuador 912

**Pityogenes bidentatus**  
distribution, New York 3658  
forest trees, New York 3658  
monitoring, traps 3658

**Pityogenes chalcographus**  
biology 10972  
behaviour 2709  
control  
chemical control 8918  
integrated control 12016  
*Ips typographus*, interactions 1701, 8924  
pheromones 8924  
*Picea*, Germany 12016  
*Picea abies* 8918  
Austria 1701, 2709  
Europe 8924  
Germany 10972  
Norway 10974  
predators 303, 10972

**Pityogenes knechteli**  
ecology, interspecific competition 769  
*Pinus contorta*, British Columbia 769

**Pityophthorus**  
parasitoids 8913  
*Pinus radiata*, California 8913  
plant pathogens, transmission 8913  
taxonomy 12

**Pityophthorus carmeli**  
Pinopsida, California 10961  
plant pathogens, transmission 10961

**Pityophthorus lichtensteini**  
distribution, UK 3657  
*Pinus*, UK 3657



- Pityophthorus nitidulus**  
Pinopsida, California 10961  
plant pathogens, transmission 10961
- Pityophthorus orarius**  
biology, behaviour 7961  
distribution, California 7961  
*Pseudotsuga menziesii*, California 7961
- Pityophthorus pecki**  
Florida 12  
taxonomy, new species 12
- Pityophthorus setosus**  
Pinopsida, California 10961  
plant pathogens, transmission 10961
- Pityophthorus tuberculatus**  
Pinopsida, California 10961  
plant pathogens, transmission 10961
- Plaesus javanus**, control, *Cosmopolites sordidus* 2223
- Plagiadera versicolora**  
biochemistry, secretions 4939, 7053  
biology, behaviour 11329  
ecology, survival 6762  
*Salix*, Illinois 6762  
*Salix nigra* 11329
- Plagiognathus**, taxonomy 11127
- Planaria**, prey, *Ommatolulus moreleti* 6163
- Planicephalus flavocostatus**  
maize 7684  
plant pathogens, transmission 7684
- Planipennia**  
prey, *Eupoecilia ambiguella* 5540  
vineyards, habitats, Germany 5540
- Plankton**, pesticides, effects 5351, 5353
- Planococcoides njalensis**  
cocoa, Ghana 4645  
Formicidae 4645
- Planococcus citri**  
biological control agents, evaluation 5553  
*Citrus*  
Florida 11896  
Karnataka 5555  
clementines, Italy 10878  
cocoa, Ghana 4645  
control  
biological control 5555  
chemical control 5553, 11896  
Fabaceae, Israel 1723  
food plants, Bangladesh 5393  
Formicidae 4645  
*Gardenia florida*, Bangladesh 5393  
hosts, *Anagyrus pseudococci* 8394  
natural enemies 1723  
parasitoids 5157, 5555, 8739, 10141  
physiology, cardiovascular system 3837  
predators 5553, 11428  
tomatoes 8739
- Planococcus ficus**, hosts, *Anagyrus pseudococci* 8394
- Planococcus lilacinus**  
control, chemical control 3666  
*Jasminum auriculatum*, Tamil Nadu 3666  
parasitoids 10141
- Planococcus vovae**  
biology 782  
ecology 782  
honeydew 782  
hosts, *Anagyrus pseudococci* 8394  
*Juniperus*, Italy 782  
*Lasius*, interactions 782  
morphology 782  
parasitoids 782  
predators 782  
taxonomy 782
- Planotortrix excessana**  
control  
chemical control 6628  
controlled atmospheres 9012  
fruits, New Zealand 6628  
genetics 527  
population genetics 11280  
monitoring, traps 3310  
New Zealand 9012  
orchards, New Zealand 3310, 5254  
pheromones 527, 11280  
predators 5254
- Planotortrix octo**  
apples, New Zealand 3536  
control  
chemical control 6628  
controlled atmospheres 9012  
fruits, New Zealand 6628
- Planotortrix octo** cont.  
monitoring, traps 3536  
New Zealand 9012  
orchards, New Zealand 3536, 5254  
physiology, pheromones 968  
predators 5254
- Plant diseases**, vectors, books 11071
- Plant extracts**  
control  
insect pests  
fishes, commodities 8993  
tea 2615  
effects  
Aphididae 8154  
insect pests 5695  
insects, reviews 10245  
*Spodoptera litoralis* 9191  
pest control, reviews 11565  
pesticidal properties, reviews 5276  
*Tetrapleura tetraptera*, molluscicides 8957  
toxicity, *Epilachna vigintioctopunctata* 10015
- Plant growth regulators**  
effects  
Curculionidae 9913  
*Cyclocephala pasadenae* 8676  
predatory arthropods 11640
- Plant oils**, toxicity, *Tribolium confusum* 8026
- Plant pathogenic fungi**, *Ips*, interactions 1689
- Plant products**, insecticides, residues 2266
- Plant protection**  
books 8043, 10070  
climatic change  
conferences 2814  
effects 2207  
computer software, Germany 380  
computer techniques, Europe 2059  
Cyprus, reports 2806  
Denmark, reports 10060  
equipment, Germany 1318  
Europe, reports 6905  
expert systems 6123  
Germany, reports 9020  
hazelnuts 2809  
Korea Republic 2260  
legislation  
Europe 6906  
Germany 9542  
Nepal, reports 2807  
Poland  
conferences 5769  
reports 2804  
reports 2802  
Russia, conferences 6910  
Sahel, conferences 6918  
Sweden, conferences 10063  
Tropics 11537  
UK 11536
- Plant resistance** (see Pest resistance)
- Plant viruses**  
books 11077  
detection 6603  
vectors 2205  
Aphididae 617, 3285  
*Bemisia tabaci* 7477, 10830  
insects 10067, 11077  
*Piesma quadratum* 696
- Plantaginaceae**, *Ocridryas editha*, America 11140
- Plantago lanceolata**  
*Euphydryas editha*, Nevada 8989  
*Euphydryas phaeton*, New York 6857  
*Junonia coenia*, resistance 11022  
Lepidoptera  
damage 11030  
New York 1090, 11030
- Plantago patagonica**, *Pogonomyrmex barbatulus*, New Mexico 8971
- Plantation crops**, pest control, India, reports 1782
- Planting depth**, effects, *Somaticus*, maize 4415
- Planting stock**, *Dasineura gleditchiae*, Italy 5155
- Plants**  
arthropod pests  
interactions, reviews 5270  
natural enemies, interactions 2109
- Plants** cont.  
arthropods, UK 2397  
defence mechanisms 7499  
extracts, effects, insects 9544  
Formicidae, interactions 294  
growth regulators, residues 4331  
insect pests, damage, reviews 6284  
insecticides, uptake 6310, 9552, 10565  
insects  
damage, reviews 7504  
ecology 3017  
Europe 3017  
interactions 10074  
resistance 11075  
metabolites, toxicity, insects 9570  
natural compounds, books 885  
pest resistance, reviews 10482  
pesticides, uptake 7494  
predatory arthropods, interactions 4370  
toxins, pest resistance 11552
- Platanus**  
*Hyphantria cunea*, Italy 11703  
*Phyllonorycter platani*, UK 8946
- Platanus acerifolia**, arthropod pests, Poland 10957
- Platanus vulgaris**, insecticides, residues 4340
- Plataspidae**, morphology, mouthparts 1862
- Plathypena scabra** (see *Hyphenia scabra*)
- Platycampus luridiventris**  
*Alnus*, Western Europe 5656  
genetics, population genetics 5656
- Platyclusus orientalis** (see *Thuja orientalis*)
- Platycodon grandiflorus**, extracts, antifecundants, Lepidoptera 11700
- Platydiscillinae**  
South East Asia 3749  
taxonomy 3749
- Platyedema ruficornis**, cereal grains, South Carolina 4809
- Platydracus maculosus**  
maize, fields, Virginia 3437  
prey, *Mythimna unipuncta* 3437
- Platygaster foersteri**  
hosts, *Orseolia oryzae* 4438  
rice, fields, Sri Lanka 4438
- Platygaster oebalus**  
*Dasineura brassicae*, interactions 2592  
rape, fields, Denmark 2592
- Platygaster oryzae**  
hosts, *Orseolia oryzae* 4438, 5440  
insecticides, effects 5440  
rice  
fields  
Orissa 5440  
Sri Lanka 4438
- Platygnobius gracilis**, insecticides, effects 8557
- Platyhelminthes**, insecticides, effects 90
- Platynaspis capicola**  
biology, environmental factors 6541  
*Phaseolus vulgaris*, fields, Kenya 6541  
prey, *Aphis fabae* 6541
- Platynota flavedana**  
apples, Virginia 10849  
monitoring, traps 10849  
pheromones 10849
- Platynota idaeusalis**  
apples 7819  
damage 11054  
Pennsylvania 6635, 6640, 11846  
control, mating disruption 6640  
insecticides, resistance 6635, 7819  
parasitoids 11846
- Platynota stultana**, distribution, Hawaii 9356
- Platynothrus peltifer**, cadmium, toxicity 9543
- Platynus angustatus**, distribution, Maryland 3080
- Platynus magnus**  
ecology, population dynamics 5439  
monitoring, traps 5439  
rice, fields, Honsu 5439
- Platynychus nothus** (see *Cardiophorus nothus*)
- Platypalpus cubanicus**, taxonomy, new species 914
- Platypalpus cubanus**, Cuba 914
- Platypalpus grilloi**  
Cuba 914  
taxonomy, new species 914
- Platyepplus aprobola** (see *Dudua aprobola*)



*Platyphora*, control, *Solanum mauritianum*, evaluation 11029

*Platyphora fasciatomaculata*, biology, reproduction 72

*Platyphora quadrisignata*, biology, reproduction 72

*Platyleura capensis*  
biology, behaviour 8265  
*Chrysanthemoides moniliferum*, South Africa 8265

*Platypodidae*, Florida 4043

*Platyptilia carduidactyla*  
*Cirsium vulgare*, Washington 5725  
parasitoids 5725

*Platyptilia williamsii*, *Erigeron glaucus*, California 6842

*Platypus*  
control, cultural control 7927  
Florida 4043  
*Nothofagus solandri*  
damage 7928  
New Zealand 7928  
*Nothofagus truncata*, New Zealand 7927

*Platypus cylindrus*  
morphology, larvae 6992  
*Quercus suber*, Spain 6992

*Platyscapa beddomei*  
*Ficus beddomei*  
Kerala 9097  
pollination 9097  
taxonomy, new species 9097

*Platysoma cylindricum*, prey, Scolytidae 11976

*Platysoma parallelum*, prey, Scolytidae 11976

*Platytenomus* (see *Telenomus*)

*Plautia*, biology, development 11149

*Plautia stali*  
biology, environmental factors 11337  
symbionts 10423

*Plebejus icarioides* (see *Icaricia icarioides*)

*Plecia*  
microorganisms 3004  
Peru 3004

*Pleciidae*, taxonomy 11123

*Plecoptera*  
morphology 2873  
phylogeny 2873

*Plectomerus dentipes*, distribution, Bahamas 9370

*Plectorhynchus mediterraneus*, commodities, Coleoptera, Senegal 8991

*Plectotropis tapeina*, physiology, water relations 10402

*Plectreurus tristis*, toxins, effects, *Heliothis virescens* 10498

*Plectris aliena*  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
sweet potatoes, South Carolina 5482

*Plegaderus vulneratus*  
biology, behaviour 2390  
*Pinus sylvestris*, habitats, Sweden 2390  
prey, *Tomicus piniperda* 2390

*Pleonomus canaliculatus*, wheat, yield losses 7669

*Pleseobyrsa bicincta*  
biology 5573  
control, chemical control 4623, 5573  
oil palms  
Latin America 4623  
Peru 5573

*Pleurophorus maghrebinicus*, distribution, Spain 7287

*Pleurotus ostreatus*, *Oxyporus stygicus* 1738

*Pleurotus sajor-caju*, *Megaselia*, India 5699

*Plodia interpunctella*  
biochemistry, reproductive organs 9131  
biology  
development 10059  
sounds 6036  
*Cadra cautella*, interactions 2782  
cell lines, pathogens 2172  
control 2780  
chemical control 6881, 10039  
physical control 6874  
dates, commodities, Iraq 851  
diets 4138

*Plodia interpunctella* cont.  
ecology, population dynamics 246  
genetics, development 5853  
groundnuts  
commodities 11042  
Georgia 2780  
insecticides  
residues, effects 11042  
resistance 4206, 9613  
maize  
commodities 10039  
Georgia 6874  
monitoring 4808  
traps 851  
parasitoids 78, 3224, 4117, 8387, 9143, 9145, 9613  
pathogens 246, 2172, 4138, 4162, 4205  
physiology  
cell lines 2898  
pheromones 11693  
reproduction 11160  
reproductive organs 3848  
predators 320  
stored products 10059  
USA, stored products 9613  
wheat, commodities, Kansas 4808

*Plum pox potyvirus*, vectors, *Myzus persicae* 9847

*Plumbago*, extracts, insecticidal properties 1719

*Plumeria rubra*  
*Poecilocerops pictus* 2403  
*Pseudosphinx tetrio*, Florida 8939

*Plums* (*Prunus cerasifera* and *P. domestica*)  
*Acalitus phloeocoptes*, Hungary 6656  
*Anastrepha*, Santa Catarina 1544  
*Archips rosanus*, Russia 9828  
commodities, insecticides, residues 3710  
*Conotrachelus nenuphar*, Georgia 6654  
*Cydia fumebrana*, Czech Republic 10858  
*Hoplocampa*  
China 361  
damage 361  
insect pests  
sampling 10840  
UK 10840  
integrated pest management, Czech Republic 5532  
*Iphiclidus podalirius*, Italy 1545  
*Metcalfa pruinosa*, Italy 11843  
pest control, Italy 7823  
*Phorodon humuli*  
UK 6657  
Washington 11007

*Plusia agnata* (see *Chrysodeixis agnata*)

*Plusia confusa* (see *Macdunnoghia confusa*)

*Plusia orichalcea* (see *Thysanoplusia orichalcea*)

*Plutella maculipennis* (see *P. xylostella*)

*Plutella xylostella*  
adjuvants, effects 7513  
*Bacillus thuringiensis*, toxins, toxicity 1245, 10418  
*Bacillus thuringiensis* subsp. *kurstaki*, toxins, toxicity 7463  
*Barbarea vulgaris*, North America 5495  
biochemistry  
enzymes 5299, 5948, 6576, 7542, 8504  
proteinases 8803  
biological control agents, evaluation 1258, 9799  
biology  
behaviour 2749, 7513, 8724, 9580, 9582, 10799  
dispersal 4503  
environmental factors 2522, 7236, 9328, 9798  
Brassica 8724  
China 1276  
India 8729  
Philippines 11814  
resistance 7778  
UK 7778  
USA 5495  
Brassicaceae 2749  
Japan 4503  
Brussels sprouts  
Prince Edward Island 4515  
UK 5491  
cabbages 7513, 7985, 9799, 9802, 10799

*Plutella xylostella* cont.  
cabbages cont.  
Bangladesh 1509  
damage 5492  
Florida 6575, 10803  
Himachal Pradesh 4513  
Hokkaido 6589, 9798  
Indiana 9801  
Jamaica 3515  
Japan 4514  
Korea Republic 2522  
Kyushu 7768  
Maharashtra 11815  
Malaysia 1506  
New South Wales 10801  
Pernambuco 1504  
Prince Edward Island 10800  
Quebec 7776  
resistance 5488  
Shanghai 6339  
South Africa 8725  
Sweden 5488  
Taiwan 2525  
Venezuela 619  
cauliflowers, Belgium 11808  
cell lines, pathogens 4191  
China 10558  
chitin synthesis inhibitors, toxicity 10669  
cold resistance 9328  
control 1504, 4511, 4515, 5495, 10803, 11550  
biological control 5491, 11812  
chemical control 1509, 2525, 3515, 7776, 10800-10801, 11815  
models 9802  
cultural control 6589, 9801  
integrated control 5264, 7768  
mating disruption 6575  
trapping 1506  
diets 7463  
ecology 6586  
arthropod communities 9349  
distribution 8729  
population dynamics 4513, 8725  
models 9802  
Florida 10539-10540  
food plants  
China 3420  
Hokkaido 6588  
genetics  
DNA 11592  
insecticide resistance 5222, 6248, 9580, 10539-10540  
population genetics 9582  
growth regulators  
effects 7623  
resistance 4514  
Himachal Pradesh 7236  
Hokkaido 9650  
Honshu 6345  
insecticides  
antifeedants 5383  
effects 4511, 6256, 7542  
pathogenicity 370, 11577  
resistance 447, 1276, 5222, 5299, 5948, 6248, 6336, 6339, 6345, 8504, 8725, 9510, 9553, 9580, 9582, 9650, 10206, 10539-10540, 10548, 10558, 11577, 11588, 11592, 11594  
toxicity 5383, 11577  
kale, South Carolina 4511  
Kyushu 7542  
leafy vegetables, America 11812  
Malaysia 1258, 6336  
Mexico 447  
monitoring 10800  
traps 7236, 11808  
natural enemies 996, 4511  
parasitoids 619, 2126, 2238, 2525, 4104, 4120, 6588, 8725, 9799, 9802  
pathogens 1506, 2195, 4160, 4515, 5491, 6256, 9500, 10506, 11814  
phagostimulants, effects 6259  
physiology  
immune response 996  
insecticide resistance 10206  
plant extracts  
antifeedants 5383, 11700  
effects 6394, 6576, 6831, 7985  
toxicity 5383, 6827, 11583, 11593



- Plutella xylostella** cont.  
radiation, effects 6013  
reviews 7498  
Shanghai 11577  
vegetables  
Guangdong 10548  
Pakistan 6586  
Sichuan 9349  
vesicles, extraction 4058
- Plutoniinae**, taxonomy 9076
- Pnigalio flavipes**  
apples  
orchards  
British Columbia 8758  
California 2551  
hosts  
Phyllonorycter 2551  
Phyllonorycter mespilella 8758  
insecticides, effects 2551
- Pnigalio okutanii**  
hosts, *Cladius pectinicornis* 7970  
roses, habitats, Honshu 7970  
taxonomy, new species 7970
- Pnyxia scabiei**  
control, *Rhizoctonia solani*, sugarbeet 9928  
*Rhizoctonia solani*, Hokkaido 9928
- Poa annua**, *Sitobion avenae* 5387
- Poa flabellata**, *Aridius*, Falkland Islands 9740
- Poa pratensis**  
Acrididae, Alaska 3689  
*Cyclocephala pasadenae*, damage 8676  
*Poanes melane* 5402  
*Spodoptera frugiperda* 5455
- Poaceae** (see also Grasses)  
arthropods, UK 2397  
Auchenorrhyncha, Czech Republic 8969  
*Haematoloma dorsatum*, Italy 9665  
*Pelopidas mathias* 6409
- Poanes melane**, food plants 5402
- Podagritus**  
biology 4852  
New Zealand 4852  
taxonomy 4852
- Podalia bolivari**  
biology 10124  
morphology 10124
- Podalonia**  
biology 4852  
New Zealand 4852  
taxonomy 4852
- Podapolipoides**  
hosts, Acrididae 1186  
Tamil Nadu 1186  
taxonomy, new species 1186
- Podapolipus**  
hosts, Acrididae 1186  
Tamil Nadu 1186  
taxonomy, new species 1186
- Podisma pedestris**  
biology, behaviour 8267  
France 8267
- Podisma sapporensis**, morphology 4890
- Podisus connexivus**  
biology 1205, 6200  
behaviour 3991  
diets 1181  
*Eucalyptus*, forests, Brazil 1661  
morphology 6200  
prey  
insect pests 3991  
Lepidoptera 1661, 7732  
*Musca domestica* 1181, 1205  
*Rackiplusia nu* 6200  
rearing techniques 1181, 1205
- Podisus maculiventris**  
biochemistry  
enzymes 1883  
lipids 4106  
biology 1410  
behaviour 2666, 6195, 7190  
reproduction 2890, 4106  
control  
insect pests, evaluation 2526  
*Lymantria dispar*, *Quercus* 2666  
growth regulators, effects 7581  
insecticides  
effects 11591  
pathogenicity 9482  
toxicity 9651
- Podisus maculiventris** cont.  
New York 1090  
prey  
*Hypena scabra* 7190  
insect pests 2526  
Lepidoptera 1090  
*Ostrinia nubilalis* 9482  
*Spodoptera exigua* 11591  
Solanaceae 1410  
vegetables, fields, Greece 2526
- Podisus nigrispinus**  
insecticides, toxicity 9651  
*Podisus sagitta*, misidentification 9083
- Podisus nigrolimbatus**  
biology, development 7020  
*Eucalyptus*, forests, Brazil 1661  
prey  
insects 7020  
Lepidoptera 1661
- Podisus sagitta**  
biology, reproduction 2133  
distribution, Mexico 1847  
growth regulators, effects 3410  
insecticides, toxicity 4266  
*Podisus nigrispinus*, misidentification 9083  
prey, *Galleria mellonella* 2133  
taxonomy 1847
- Podocarpus nagi**, forests, arthropods, Honshu 1706
- Podontia quattuordecimpunctata**  
biology, development 3566  
*Spodias pinnaia* 3566
- Podosesia syringae**  
Colorado 515  
pheromones 515
- Podotenus**  
Australia 4851  
taxonomy 4851
- Poecilila latipinna**, insecticides, effects 8529
- Poecilila reticulata**, insecticides, residues 7586
- Poecilimon thessalicus veluchianus**, biology, reproduction 2891
- Poecilimon veluchianus** (see *P. thessalicus veluchianus*)
- Poecilips**  
Pacific Islands 1810  
taxonomy 1810
- Poecilobracon**, taxonomy, synonyms, *Calibracon* 4855
- Poeciloceros pictus** (see *Poeciloceros pictus*)
- Poecilus caeruleus** (see *Pterostichus caeruleus*)
- Poecilus cupreus** (see *Pterostichus cupreus*)
- Poecilus planicollis** (see *Pterostichus planicollis*)
- Poecilus versicolor** (see *Pterostichus versicolor*)
- Poeciloceros bufonius**  
biology, environmental factors 3869  
physiology, thermoregulation 3869
- Poeciloceros pictus**  
biology, behaviour 7986  
*Calotropis procera* 7986  
food plants 2403  
insecticides, effects 10560  
morphology, reproductive organs 7004  
plant extracts, effects 6147
- Pogonomyrmex salinus**  
biochemistry, chemical composition 4973  
biology, behaviour 4973
- Pogonomyrmex**  
Argentina 4023  
ecology 4023
- Pogonomyrmex barbatus**  
biology, behaviour 3060, 3190, 8971  
ecology  
communities 4699  
population ecology, models 2090  
food plants, New Mexico 8971  
Mexico 3060  
New Mexico 3190  
pathogens 9495  
Texas 4699
- Pogonomyrmex maricopa**, physiology, bioenergetics 10152
- Pogonomyrmex occidentalis**  
biology  
behaviour, models 5056  
nests 4083
- Pogonomyrmex occidentalis** cont.  
biology cont.  
reproduction 11168  
Colorado 4083, 11168, 11409  
ecology 1191, 2086, 7252  
distribution 11409  
population dynamics 8290  
grasslands, Colorado 2086  
Nebraska 8290  
New Mexico 1191  
North Dakota 7252  
*Reticulitermes tibialis*, interactions 8395  
USA 8395
- Pogonomyrmex rugosus**  
biology, behaviour 6149  
physiology, bioenergetics 10152
- Poincinia regia**, wood, *Prostephanus truncatus* 1771, 5739
- Poinsettias**  
*Bemisia argentifolii* 4747, 8942, 10978  
Nova Scotia 8948  
*Bemisia tabaci* 7974, 7996, 10004  
Italy 12033  
*Bradysia*, UK 793  
greenhouses, *Stratiolaelaps miles*, UK 793  
*Phenacoccus manihoti* 4498  
resistance 8712
- Poland**  
*Abies alba*  
insect pests 12017  
insects 4742  
*Allium*, pest control 1501  
*Anethum graveolens*, *Lygus* 8963  
*Apis mellifera*, ectoparasites 10381  
Apoidea, insecticides, toxicity 1362  
apples, arthropods 5519  
black currants  
*Cecidophyopsis ribis* 1554  
*Tetranychus urticae* 1553  
blackberries, *Cicadellidae* 1551  
*Buxus sempervirens*, *Eurytetranychus buxi* 1712  
cabbages, *Anthomyiidae* 6580  
carrots  
*Cavariella aegopodii* 1495  
fields, *Coccinellidae* 1495  
*Ceratitis capitata*, quarantine 1301  
cereals, *Aphididae* 3091  
*Chrysomelidae* 1155-1156  
crops, pest control 2400  
*Curculionidae* 5097  
drinking water, insecticide residues 2380  
ectoparasites 10381  
entomogenous fungi, pest control 1279  
faba beans, pest control 1552  
forest trees, insect pests 1644-1645  
forests  
fauna 10249  
Laboulbeniales 10442  
*Formica* 5144-5146, 11414  
*Formica polyctena* 11415  
fruit vegetables, pest control 1513  
fruits, integrated pest management 2548  
garlic, *Suillia lurida* 11806  
*Gastropoda* 1242  
grain legumes, *Sitona lineatus* 3490  
grasslands, *Thysanoptera* 8672  
greenhouse crops  
arthropod pests 1281  
control, chemical control 1514  
biological control 1280  
insect pests 1299  
quarantine 1061  
pest control 1286  
*Tetranychus cinnabarinus* 10816  
hazelnuts, arthropod pests 11917  
insecticides  
legislation 2247  
registration 10526-10527  
insects 3009  
pollutants, effects 2006  
Laboulbeniales 6234  
leeks, *Acrolepiopsis assectella* 97  
Lepidoptera 1154  
*Leptinotarsa decemlineata* 1328, 8471  
maize, *Oscinella frit* 551, 3438, 8649  
man  
insecticide residues 8522  
pesticides, poisoning 1363, 4281  
mangolds, *Pegomya betae* 5486



**Poland** *cont.*  
*Maniola jurtina* 6994  
 Noctuidae 6090  
 oats  
     Aphididae 10703  
         fields, beneficial insects 10703  
 onions, *Lilioceris merdigera* 1500  
 ornamental woody plants, *Otiiorhynchus sulcatus* 6812  
 pears, *Contarinia pyrivora* 1542  
 pest control 1284  
 pesticides, usage 6347  
*Picea abies*  
     *Cephalcia fallanii* 7956  
     insects 1699  
*Pinus*  
     forests  
         arthropods 5675  
         fauna 10931  
 plant protection  
     conferences 5769  
     reports 2804  
*Platanus acerifolia*, arthropod pests 10957  
 potatoes  
     pest control 2503  
     pest resistance 2499  
 predatory arthropods, habitats 536  
*Pseudotsuga menziesii*, *Megastigmus spermotrophus* 2713  
*Quercus robur*, *Tortrix viridana* 1665  
 rape  
     *Ceutorhynchus* 3576  
         insect pests 3575, 3577, 10898  
         pest control 2591  
*Ribes aurea*, *Cecidophopsis aureum* 5534  
 rye, *Haplothrips aculeatus* 3421  
 soil  
     Formicidae 9415  
     insecticides, degradation 1380  
 strawberries, *Otiiorhynchus* 6663  
 sugarbeet  
     pest control 9931  
     *Piesma quadratum* 696  
 sunflowers, pest control 2593  
 vegetables  
     pest control 1298  
     *Tetranychus urticae* 1515  
 waste land, *Cryptostigmata* 9340  
 wheat  
     Aphididae 3429  
     Cecidomyiidae 3428  
     *Oulema* 11721  
     *Sitobion avenae* 3421  
*Polemocharthus*, hosts, *Lipara similis* 1904  
*Polemocharthus liparae*, physiology, respiration 1904  
*Polemonium pulcherrimum*, *Bothynotus modestus*, Canada 11380  
*Polistes*, biology, reproduction 1078  
*Polistes dominulus*  
     behaviour, reproduction 8242  
     biology, behaviour 10260  
     genetics, ribosomal RNA 10220  
     parasitoids 10220  
     phylogeny 10220  
*Polistes exclamans*, biochemistry 3858  
*Polistes fuscatus*  
     biology, behaviour 3055, 4097, 4779  
     interactions, *Phymata americana* 4779  
     New York 1090  
     Ontario 3055  
     prey, Lepidoptera 1090  
*Polistes hebraeus* (see *P. olivaceus*)  
*Polistes instabilis*  
     biology, behaviour 6197  
     Costa Rica 6197  
*Polistes lanio*  
     biology, development 3031  
     Sao Paulo 3031  
*Polistes mandarinus*  
     biology, behaviour 9980  
     Pinopsida, Honshu 9980  
*Polistes metricus*, biology, behaviour 7193  
*Polistes olivaceus*  
     fungi, interactions 10291  
     pathogens 4174  
     prey, Lepidoptera 8435  
     Reunion 8435, 10291  
*Polistes snelleni*, biology, reproduction 5181

**Polistes versicolor**  
 biology, phenology 3014  
 Brasilia 3014  
 morphology, muscles 2881  
 Sao Paulo 2881

**Pollen**  
 food  
     *Amblyseius idaeus* 2511  
     *Neoseiulus longispinosus* 8381  
     *Typhlodromus pyri* 4124

**Pollination**  
 almonds, insects 677  
*Alocasia odora*, *Colocasiomyia* 3194  
 alpine plants, Diptera 5705  
*Asclepias syriaca*, insects 2762  
*Bauhinia variegata*, *Camponotus* 4754  
 cocoa, Diptera 4646  
 crops, beneficial insects 1198  
 cycads, Coleoptera 1638  
*Ficus*  
     Agaonidae 5700, 8080, 9097  
     *Blastophaga* 10103  
     *Ficus burtt-davyi*, *Elisabethiella baijnathi* 6672-6673  
     *Ficus chrysoplepis*, Agaonidae 671  
     *Ficus hispida*, *Ceratosolen solmsi* 10364  
 figs  
     *Blastophaga psenes* 6698  
     Hymenoptera 4581  
 forest trees, insects 2102, 6772  
 fruits, insects 659  
*Leontopodium alpinum*, insects 8934  
 Orchidaceae, Diptera 2728  
 plants, *Osmia tricornis* 5148  
*Polygonum thunbergii*, insects 5727  
*Prosopis cineraria*, insects 3649  
*Protea laurifolia*, insects 786  
*Silene pratensis*, insects 6848  
 subtropical fruits, insects 10872  
*Veronica*, insects 5726  
*Vitex negundo*, insects 5684  
 weeds, insects 2761  
*Yucca*, *Tegeticula yuccasella* 2721  
*Yucca filamentosa*, *Tegeticula yuccasella* 2722  
*Yucca glauca*, *Tegeticula yuccasella* 4749  
*Yucca kanabensis*, *Tegeticula yuccasella* 1741, 8000  
*Zamia furfuracea*, *Rhopalotria mollis* 6742

**Pollutants**  
 effects  
     air 3391  
     assessment 1387  
     *Eurosta solidaginis* 6844  
     insects 2006, 9331

**Pollution**  
 effects  
     forests, insects, Germany 7944  
     *Leptinotarsa decemlineata* 8471  
     *Ficus*, *Kradibia* 10102  
     monitoring 9277  
*Polybia occidentalis*  
     biology, behaviour 6197, 9309  
     Costa Rica 6197  
*Polybia paulista*  
     biology, behaviour 3990  
     morphology, muscles 2881  
     Sao Paulo 2881, 3990  
     *Tabebuia chrysotricha*, Sao Paulo 8358  
*Polybioides tabidus*, morphology 2880  
**Polyborate**, control, *Zootermopsis angusticollis*, wood 3235  
**Polybutenes**, control, *Pantomorus cervinus*, Citrus 5556  
*Polycaon stoutii*, wood, USA 11041  
**Polychlorinated biphenyls**  
 analysis 2263, 10521  
 effects  
     *Chelydra serpentina* 9598  
     fishes 264  
         models 3353  
     *Halichoerus grypus* 3373  
     man 2339, 3354, 7575  
     *Onchorhynchus* 3356  
     *Oreochromis* 4288  
     rats 3347  
     *Sterna hirundo* 2342  
     extraction, marine invertebrates 5317

**Polychlorinated biphenyls** *cont.*  
 nontarget effects  
     marine mammals 3380-3381  
     *Mergus serrator* 8537  
     whales 3381  
 residues  
     aquatic animals 5329  
     aquatic environment 5363  
     aquatic organisms 4322  
     birds 4279  
     Chiroptera 5345  
     drinking water, extraction 7609  
     environment 1184, 3390  
     fishes 3355, 3393, 8574, 10568  
         determination 10568  
     *Gadus morhua* 3360, 5343  
     *Homarus americanus* 2336  
     human milk 4312  
     Isoptera 1334  
     *Limanda limanda* 10610  
     man 5342  
     marine environment 3380  
     *Mytilus galloprovincialis* 4300  
     *Phocoena phocoena* 5328  
     *Pseudopleuronectes americanus* 2344  
     rivers 3355, 3400, 4333  
     sediment 8589, 8591, 9635  
     *Tachypleus tridentatus* 8558  
     toxicity, models 265  
*Polychrosis callifera*, *Syzgium cumini*, Uttar Pradesh 9662  
*Polychrosis cellifera* (see *Ophiorrhada cellifera*)  
*Polychrosis cunninghamiacola*  
     Jiangxi 8053  
     parasitoids 8053  
     taxonomy, to *Lobesia* 10112  
*Polydesma umbricola*  
     pathogens 4174  
     predators 8435  
     Reunion 8435  
**Polydesmida**, habitats, Czech Republic 7251  
**Polydnaviridae**  
     *Campoplex sonorensis*, interactions 1003  
     *Cotesia rubecula*, interactions 324  
     genetics 1003, 5215  
     gene expression 171  
 hosts  
     *Chelonus inanitus* 5215  
     *Chrysodeixis includens* 6232  
     *Glabromicroplitis croceipes* 7337  
     *Heliothis virescens* 1003, 7337  
     insects 171  
     *Manduca sexta* 4945  
     *Pieris rapae* 324  
*Polydnavirus*  
     *Campoplex sonorensis*, interactions 5217  
     hosts, *Heliothis virescens* 5217  
*Polydrusus mollis*, evolution 4874  
*Polydrusus ruficornis*  
     *Betula pubescens*, Russia 1659  
     sampling 1659  
**Polyergus**  
     biology, behaviour 5127  
     *Formica*, interactions 5127  
**Polyergus rufescens**  
     biology, behaviour 5138  
     Italy 5138  
**Polyergus samurai**  
     biology  
         behaviour 3192  
         environmental factors 8352  
     *Formica japonica*, interactions 3192  
     Honshu 8352  
**Polyethylene**, fumigants, permeability 8482  
**Polyergus rufescens**, biology, behaviour 291  
**Polygoidal**, effects, *Myzus persicae* 7773  
**Polygonia c-album**  
     biology  
         behaviour 530  
         development 4387  
         food plants 530, 4387  
         morphology 63  
**Polygonia c-aureum**, physiology, reproduction 7089  
**Polygonum aviculare**, *Gastrophysa polygoni*, Italy 10027  
**Polygonum convolvulus** (see *Fallopia convolvulus*)  
**Polygonum glabrum**  
     biological control agents, evaluation 4785



- Polygonum glabrum* cont.**  
*Hypolixus truncatulus* 4785
- Polygonum punctatum*, *Oebalus ypsilon-griseus*** 3912
- Polygonum thunbergii***  
insects  
Honshu 5727  
pollination 5727
- Polygor** (see *Dimethoate*)
- Polymerus vulneratus***  
biology, environmental factors 4458  
lucerne  
damage 4458  
Hungary 4458
- Polymerus wheeleri*, *Phlox***, USA 12054
- Polynactins**, mixtures, toxicity, *Tetranychus urticae* 6342
- Polynema***  
control, insect pests, rice 9724  
rice, fields, Colombia 9724
- Polynema pratensisphagum***  
fields, habitats, Quebec 4110  
hosts, *Lygus lineolaris* 4110
- Polyocha depressella***  
biology 6723  
environmental factors 3589  
control, chemical control 1616, 3588, 3591, 6725, 11951  
sugarcane  
Bangladesh 6721  
Gujarat 3591  
Haryana 1616, 6723, 11951  
India 3589  
Pakistan 3588, 6725  
Uttar Pradesh 5586
- Polymmatius bellargus***  
Formicidae, interactions 8427  
pathogens 8427
- Polymmatius coridon***  
ecology, *Polymmatius* 254  
Switzerland 254
- Polymmatius icarus***  
biochemistry, flavonoids 4970  
fodder legumes 4970  
Formicidae, interactions 8427  
*Lasius flavus*, symbiosis 1082  
morphology, colour 11158  
pathogens 8427  
UK 11158
- Polyphagotarsonemus latus***  
biology 1478  
environmental factors 8466  
*Capsicum*, Florida 8746  
control  
biological control 8746  
chemical control 1478, 5619  
food plants, damage 4385  
forecasting 8466  
grapes, Rio Grande do Sul 4580  
jute  
West Bengal 5619  
yield losses 5619  
morphology 1478  
*Phaseolus*, damage 1478  
predators 9439  
Sichuan 8466
- Polyporus squamosus*, *Oxyporus stygicus*** 1738
- Polyrhachis***  
biology, behaviour 3061, 3186  
seeds, interactions 3061
- Polyrhachis laboriosa***  
biology, behaviour 4681  
forests, Cameroon 4681
- Polyrhachis vicina***  
biology, behaviour 6787  
habitats, Zhejiang 6787  
Hemiptera, interactions 6787
- Pomacea**  
biochemistry, lectins 4135  
control, plant extracts 2444  
plant extracts  
antifeedants 2445  
toxicity 2444  
rice, Philippines 2444-2445
- Pomacea canaliculata***  
aquatic weeds, Japan 5724  
as fertilizers 3473  
cereals, Taiwan 3469  
control  
aquatic weeds 5724
- Pomacea canaliculata* cont.**  
control cont.  
biological control 12090  
chemical control 3469, 7701  
food plants, Japan 5443  
genetics, population genetics 6220  
Honshu 6220  
morphology 6220  
rice  
Asia 7701  
Philippines 572, 3473
- Pome fruits**  
arthropod pests  
biology 7808  
economic thresholds 7808  
Italy 7805  
*Cydia pomonella*, Iraq 10843  
integrated pest management, Germany 10842  
orchards, *Typhlodromus pyri*, Belgium 1534  
pest control  
Italy 3534, 7804, 7808  
reviews 643  
*Quadraspidiotus*, Switzerland 1535  
Tephritidae, South Africa 3533
- Pomegranates** (*Punica granatum*)  
*Apomyelois ceratoniae*, Iran 3549, 3571  
Eriophyes  
damage 1543  
galls 1543  
India 1543  
Homoptera, Karnataka 9903  
*Leptoglossus zonatus*, Sao Paulo 8792  
*Narosa nigrisigna*, China 9899  
orchards, beneficial insects, Karnataka 9903  
*Poeciloceris pictus* 2403  
*Scirtothrips dorsalis*, Gujarat 11907
- Pompilidae**  
grasslands, South Dakota 9742  
interactions, arthropods 9742
- Ponderosa pine** (see *Pinus ponderosa*)
- Ponds**  
insecticides  
effects 4346  
movement 8585
- Ponera pennsylvanica***, biology, behaviour 3183
- Pongamia glabra***  
*Mylabris balteata* 3010  
oils, effects, *Aleurolobus barodensis* 3596
- Pongamia pinnata***  
control, *Lipaphis erysimi*, toria 9796  
effects, *Earias vittella* 8748  
insect pests  
Pakistan 8850  
Tamil Nadu 5779-5780
- Pontania**  
biology 10384  
Europe 10384  
natural enemies, ecology 10384  
*Salix*  
galls 5650, 7924  
New York 5650  
resistance 5650  
UK 7924
- Pontania aestiva***  
*Salix*  
Europe 4846  
galls 4846  
taxonomy 4846
- Pontania viminalis***  
*Salix*, galls 4846  
taxonomy 4846
- Pontia occidentalis***  
biology, behaviour 7206  
Colorado 7206
- Poocetes gramineus***, pesticides, consumption 11645
- Popillia japonica***  
*Acremonium*, interactions 7452  
*Acremonium coenophialum*, interactions 10747  
alkaloids, antifeedants 7452  
biology, behaviour 2725, 4194, 6054  
control  
biological control 4755, 7717  
integrated control 6054  
diets 4066
- Popillia japonica* cont.**  
*Festuca* 7452  
*Festuca arundinacea* 10747  
genetics, RNA 1043  
insecticides  
pathogenicity 3279  
toxicity 4265  
lawns and turf 2725  
New Jersey 4755  
monitoring, traps 6054  
parasitoids 4755  
pathogens 362, 2189, 4194, 4265, 6054, 7452, 8434  
Portugal 6054, 7717, 8434  
rearing techniques 4066
- Poplars** (see *Populus*)
- Poppies** (see *Papaver*)
- Population genetics**  
Acrididae, mitochondrial DNA 7149  
*Bacillus atticus*, biochemistry 5010  
*Bolitotherus cornutus* 2014  
*Ceratitis capitata*, genetic variation 6010  
*Choristoneura rosaceana*, genetic variation 6008  
*Chorthippus parallelus*, reproduction 3908  
*Coleomegilla maculata* 1949  
*Diatraea grandiosella* 11275  
*Drosophila*, insecticide resistance 9833  
*Drosophila biarmipes* 4980  
*Drosophila buzzatii*  
chromosome polymorphism 2947  
heat resistance 3000  
polymorphism 10237  
*Drosophila melanogaster* 5014, 6003, 9255  
genes 2999  
genetic variation 1950, 2995  
polymorphism 1959  
transposable elements 2992, 5015  
models 1952  
*Drosophila subobscura*  
chromosome polymorphism 10236  
mitochondrial DNA 1951  
*Helicoverpa punctigera*, inbreeding 9260  
Hymenoptera, models 1948  
*Hypothenemus hampei*, genetic diversity 9939  
*Kaltenbachella japonica*, genetic variation 6763  
*Leptinotarsa juncta*, natural selection 3059  
*Lymantria*, DNA 8236  
*Lymantria dispar*, genetic variation 11284  
*Nephotettix* 6488  
*Operophtera brumata*, genetic variation 4696  
*Pieris*, gene flow 7147  
*Rhopalosiphum padi*, genetic variation 6007  
*Tetranychus quercivorus*  
incompatibility 10938  
reproduction 6009  
*Viteis vitifoliae* 9877  
*Yponomeuta padellus*, gene flow 1997
- Populus**  
*Chrysomela scripta*  
Arizona 8878  
Iowa 10223  
resistance 8878  
*Clostera*, Uttar Pradesh 3625  
Coleoptera, Germany 1673  
*Flautiauxia armata*, China 6949  
habitats  
*Coccinella septempunctata*, Michigan 5392  
*Formica* 3986  
insect pests 9029  
damage 7908  
France 7908  
Germany 7920  
Italy 8877  
Lepidoptera, resistance 4701  
*Lymantria dispar* 9974  
*Malacosoma disstria*, resistance 3643  
*Paranthrene tabaniformis*, Italy 10946  
*Paraphytomyza populi*, Belgium 2025  
*Thrips fallaciosus* 919  
wood, *Reticulitermes flavipes* 6867



- Populus alba**  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760  
  *Paranthrene robiniae*, California 4686
- Populus angustifolia**, insect pests, Utah 10945
- Populus balsamifera**, *Papilio canadensis*, USA 3634
- Populus canadensis**, *Paranthrene robiniae*, California 4686
- Populus cathayana**  
  forests, *Apanteles conopiae*, Qinghai 11992  
  *Sesia sinigensis*, Qinghai 11992
- Populus ciliata**  
  *Epipemphigus marginalis*  
    galls 23  
    Uttar Pradesh 23  
  *Gibberifera simplana*  
    damage 6759  
    Himachal Pradesh 6759
- Populus deltoides**  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760
- Populus fremontii**  
  insect pests, Utah 10945  
  *Pemphigus obesinymphae*  
    galls 5649  
    USA 5649
- Populus grandidentata**  
  *Lymantria dispar* 6747  
    Michigan 732-733, 6746  
  *Phratora purpurea purpurea*, Maryland 744
- Populus nigra**, *Pemphigus vesicarius* 6174
- Populus tremula**  
  insect pests, Finland 721  
  *Phratora* 1655
- Populus tremula** × *P. alba*  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760
- Populus tremula** × *P. tremuloides*  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760
- Populus tremuloides**  
  *Aceria parapopuli*  
    Canada 10947  
    galls 10947  
  *Choristoneura rosaceana* 647  
  *Dendroctonus rufipennis*  
    Colorado 3656  
    outbreaks 3656  
  extracts, effects, *Lymantria dispar* 736  
  insecticides, persistence 11991  
  Lepidoptera 11990  
  *Lymantria dispar* 6747  
    Michigan 732-733, 6746  
    resistance 736  
  *Malacosoma disstria*  
    damage 8879  
    USA 8879  
  *Papilio canadensis*, USA 3634  
  *Tetranychus urticae* 11991
- Populus trichocarpa**  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760  
  insect pests, Washington 7919
- Populus trichocarpa** × *P. deltoides*  
  *Chrysomela tremula*, France 6760  
  forests, beneficial insects, France 6760
- Porcellio laevis**, distribution, Arab countries 2040
- Porcellio scaber**  
  *Acer campestre* 10502  
  *Acer pseudoplatanus* 10256  
  biology, behaviour 10256  
  cadmium, toxicity 9543  
  California 1254  
  ecology 1089  
  Europe 1306  
  grasslands, UK 1089  
  heavy metals, effects 1306, 10502  
  pathogens 1254  
  physiology, digestive system 10177
- Porcellionides pruinosus**  
  ecology, community ecology 3919  
  pesticides, effects, assessment 11605  
  Southern Africa 3919
- Porphyryns**  
  effects, Lepidoptera 11603  
  insecticides, usage 3296
- Porphyrophora**, cereals, Syria 11714
- Porphyrophora ningxiana**  
  biology, behaviour 6820  
  *Glycyrrhiza uralensis* 6820
- Porphyrophora tritici**  
  barley, Syria 11726  
  cropping systems, effects 11726
- Portevinia maculata**  
  *Allium ursinum*, Germany 7263  
  biology, life cycle 7263  
  parasitoids 7263
- Portia**  
  biology, behaviour 200, 8274  
  prey, Araneae 8274
- Portugal**  
  apples, *Panonychus ulmi* 6649  
  Arion 4871, 5204  
  *Asobara rufescens* 306  
  *Carabus* 5827  
  Collembola 8062  
  crops, Aphididae 6419  
  *Drosophila subobscura* 3805  
  entomology, conferences 3720  
  forest nurseries, insect pests, books 9042  
  integrated pest management 8460  
  *Lycaena tityrus* 9360  
  Noctuidae 9066  
  *Pararge aegeria* 3921, 9333  
  *Phaseolus*  
    fields, Phytoseiidae 6542  
    *Tetranychus* 6542  
  Pieridae 9066  
  *Popillia japonica* 6054, 7717  
  natural enemies 8434  
  *Quercus rotundifolia*, forests, Collembola 6756  
  *Trichogramma evanescens* 9066  
  *Urtica morifolia*, *Vanessa indica* 3114  
  *Vicia*, *Eutrichapion mystriophorum* 6971
- Portulaca oleracea**, Australia 3695
- Pot marigolds** (see *Calendula officinalis*)
- Pot plants**, *Frankliniella occidentalis*, Japan 12020
- Potamogeton perfoliatus**, *Anabolia nervosa* 734
- Potassium chloride**, effects, Noctuidae 5925
- Potassium fertilizers**  
  effects  
    Aphididae 6422  
    Lepidoptera 3612
- Potassium nitrate**, control, *Metcalfa pruinosa*, fruit crops 11843
- Potassium permanganate**, control, *Beauveria bassiana* 3258
- Potato A potyvirus**, vectors, *Myzus persicae* 7474
- Potato leaf roll luteovirus**  
  vectors  
    Aphididae 6550, 10787  
    *Myzus* 7760  
    *Myzus persicae* 3271, 8707
- Potato X potexvirus**, vectors, Hemiptera 631
- Potato Y potyvirus**  
  vectors  
    Aphididae 6550  
    Aphidoidea 9787  
    Hemiptera 631  
    *Myzus persicae* 9519
- Potato yellow vein disease**, vectors, *Trialeurodes vaporariorum* 2501
- Potatoes** (*Solanum tuberosum*)  
  *Abgrallaspis cyanophylli* 11790  
  *Agriotes obscurus*  
    resistance 6561  
    Sweden 6561  
  *Agrotis ipsilon* 4056  
  Aphididae 6550  
  Croatia 3509  
  Hokkaido 6557, 7758-7759  
  Morocco 10787  
  Parana 4495  
  Aphidoidea 9787  
  *Aphis gossypii*  
    Japan 6556, 7748, 9780  
    yield losses 9780  
  arthropod pests, control, chemical control 2400  
  *Astylus variegatus*, Minas Gerais 5421  
  *Bacillus thuringiensis*, genetic engineering 10683
- Potatoes cont.**  
  *Bemisia tabaci* 9664  
  books 890  
  Coleoptera  
    Argentina 7750, 10782  
    Western Australia 9779  
  commodities  
    insecticides  
      effects 6902  
      residues 5740  
  *Leptinotarsa decemlineata* 10050  
  pesticides, residues 5736  
  *Phthorimaea operculella* 3507, 12074  
  India 5475  
  predators, India 5475  
  *Cyclocephala signaticollis*, Argentina 4484  
  *Empoasca viitis* 604  
  *Epilachna vigintioctopunctata*, West Bengal 5476  
  *Epilachna yasutomii*, Honshu 4493  
  extracts  
    attractants, *Chilocorus nigrita* 11790  
    effects  
      *Diabrotica* 3839  
      *Spodoptera littoralis* 7202  
  fields  
    Aphididae, Denmark 622  
    beneficial arthropods, Karnataka 1493  
    Carabidae, UK 11791  
    *Diaeretiella*, Costa Rica 602  
    natural enemies, Yemen 7755  
    *Orius sauteri*, Hokkaido 7754  
    parasitoids, Massachusetts 7753  
  Gelechiidae  
    Costa Rica 9777  
    damage 9777  
  habitats, beneficial insects, Hokkaido 7759  
  *Helicoverpa armigera*, Gujarat 11778  
  *Holotrichia*, Himachal Pradesh 11792  
  *Holotrichia longipennis*, Uttar Pradesh 3504  
  insect pests 864, 870, 890, 4489, 10788  
  control, chemical control 6420  
  Costa Rica 601  
  Estonia 10695  
  Greece 8711  
  Nepal 5472  
  Peru 3506, 5473  
  Sweden 1300  
  Ukraine 6559, 9774  
  Venezuela 7752  
  insecticides  
    effects 599  
    residues 597-598, 2500, 8711, 11888  
  insects, Hokkaido 7754  
  integrated pest management 600, 870, 872, 7756  
  South Australia, reports 6907  
  Tunisia 6555  
  Wisconsin 7762  
  Lepidoptera, resistance 4492  
  *Leptinotarsa decemlineata* 605, 1494, 4102, 4490-4491, 4494, 6551, 6554, 10783, 11795  
  Belarus 11794  
  British Columbia 4429  
  damage 8706  
  Delaware 9775  
  Germany 1492  
  Hungary 2733  
  Indiana 3502  
  Massachusetts 4496, 7753  
  New Brunswick 4486, 6553  
  New Jersey 7757, 9776  
  Pennsylvania 6552, 7756  
  Quebec 8710, 9783  
  resistance 2504, 5474, 9785  
  Switzerland 6558  
  Virginia 9782  
  yield losses 8710, 9782  
  *Liriomyza huidobrensis*  
    Costa Rica 7749  
    damage 7749  
  *Lygus lineolaris*, Quebec 4110  
  *Macrosiphum euphorbiae* 6182  
  Russia 6560  
  *Myzus persicae* 5477, 7234, 8707  
  Costa Rica 602  
  Idaho 4175, 7760



**Potatoes cont.***Myzus persicae* cont.

Manipur 2502

resistance 3505

Venezuela 7751

*Ostrinia nubilalis* 10716

Prince Edward Island 4488, 9784

pentachlorophenol, effects 8706

Pentatomidae, Argentina 603

pest control 10786

books 11076

Germany 1491

Ontario 8480

Poland 2503

South Australia 5761

pest resistance 865, 6283

Poland 2499

techniques 10785

pesticides, detection 9393

pests

America 5764

resistance 9786

*Phthorimaea operculella* 6562, 8708

damage 5260

Himachal Pradesh 3510

Israel 4388

Karnataka 4485

Maharashtra 3503, 11793

Tunisia 6555

Turkey 11710

Yemen 7755

*Plutella xylostella*, China 3420*Podisus maculiventris* 1410*Polyphagotarsonemus latus*, damage 4385*Premnotypes*, Peru 8709*Rhigospidius piercei*, Argentina 3508*Spodoptera litura*, Karnataka 1493*Systema argentinensis*, Argentina 182*Thrips palmi*, Venezuela 624, 5462*Trialeurodes vaporariorum* 2501

Hokkaido 9781

**Potatoes × *Solanum berthaultii*, *Leptinotarsa decemlineata*, resistance 6563****Potentilla crantzii**

Diptera

Norway 5705

pollination 5705

***Pothos scandens*, *Brevipalpus phoenicis*, resistance 4391****Poultry**

insecticides

effects 9595

residues 8990

toxicity 2314

***Pouteria campechiana***commodities, *Anastrepha suspensa* 12084

insect pests 799

**Prallethrin, metabolism, *Lepomis macrochirus* 6353*****Praon gallicum***hosts, *Schizaphis graminum* 563

parasitoids 563

sorghum, fields, France 563

***Praon peguodorum***

biology, behaviour 7343, 7351

hosts

*Acyrtosiphon pisum* 7343

Aphididae 7351

***Praon volucre***

ecology, environmental factors 8367

hosts

Aphididae 8367

*Schizaphis graminum* 563

insecticides, effects 11718

parasitoids 563

sorghum, fields, France 563

wheat, fields, Irish Republic 11718

***Pratylenchus penetrans*, insecticides, effects 9749*****Prays fraxinella***

biology, behaviour 9975

*Fraxinus excelsior*

damage 2670

UK 2670, 9975

***Prays oleae***

control, integrated control 6709

olives, Spain 6709

**Precipitation**effects, *Bacillus thuringiensis* 2192

insecticides, residues 2047

**Precipitation cont.**

pesticides, residues 4341

***Precis coenia* (see *Junonia coenia*)****Precoene II**

effects

*Sogatella furcifera* 9573*Tribolium freemani* 8119**Predator prey relationships**

evolution, models 4026

models 1206, 5178

statistical analysis 2106

**Predators**

arthropod pests, plants, interactions 2109

Central America 7335

control, insect pests, tomatoes 10823

interactions, food plants, Aphididae 8365

prey

assays 256

interactions 2136

**Predatory arthropods**

apples, orchards, Switzerland 8760

Araneae, ecology, habitats 8760

biology, behaviour 878, 3049, 7953, 9678

cabbages, fields, Philippines 5494

Chrysopidae, ecology, habitats 8760

*Citrus*, orchards, Brasilia 3559

Coccinellidae, ecology, habitats 8760

control, Acrididae, evaluation 6144

cotton

fields

Bangladesh 5611

Sao Paulo 5614

crops, fields, Germany 5401

ecology

arthropod communities 4035

habitats 8754

population dynamics 3049

fields

habitats, Delaware 3049

Kenya 6427

habitats, Poland 536

Heteroptera, ecology, habitats 8760

insecticides

effects 5611, 5614

nontarget effects 5494

monitoring, traps 5494

orchards, Switzerland 8750

pesticides, effects 2335

*Pinus*, habitats, USA 7953

plant extracts, attractants, reviews 4370

plants, interactions 4370

prey

*Anthonomus grandis* 5614*Helicoverpa armigera* 6427*Ips pini* 7953

rearing techniques, reviews 299

sampling 5540, 9380

*Tenodera sinensis*, interactions 3049

wheat

fields

Germany 1224

Switzerland 9678

**Predatory insects**

Brussels sprouts, habitats, UK 4404

ecology, population dynamics 8810

groundnuts, fields, South Africa 8810

insecticides, effects 9771

Ningxia 1210

wheat, fields, UK 4409

**Predatory mites***Ageratum conyzoides*, habitats, Hunan 9889

apples, orchards, Utah 650

ecology

habitats 648

population dynamics 6086

fungicides, effects 5357, 8774

ground cover plants, habitats, Massachusetts 648

Netherlands 6086

prey

*Aculus schlechtendali* 2225*Ceroplastes ceriferus* 3599

sampling 6086

vineyards, Germany 8774

weeds, habitats, Utah 650

**Premnotypes**

biological control agents, evaluation 8709

control 3506

integrated control 5473

**Premnotypes cont.**

potatoes, Peru 3506, 5473, 8709

**Premnotypes vorax**

biology, reproduction 10784

food plants 10784

***Prenolepis longicornis* (see *Paratrechina longicornis*)****Pressure treatment**, effects, *Ceratitis capitata* 11539**Primisulfuron**, interactions, insecticides 10632**Primulaceae**, arthropods, UK 2397***Prionomitus mitratus***

biology, behaviour 6813

*Crataegus*, habitats, Germany 6813

hosts

*Cacopsylla pyri* 2562*Psylla crataegi* 6813

pears, orchards, Italy 2562

***Prionomitus tiliaris***

biology, behaviour 6813

*Crataegus*, habitats, Germany 6813hosts, *Psylla* 6813***Prismognathus angularis***, forest trees, wood 5632***Pristaulacus***

biology 4644

coffee, habitats, Thailand 4644

hosts, *Xylotrechus quadripes* 4644***Pristhesancus plagipennis***

biology

behaviour 7062

environmental factors 10383

pheromones 7062

prey, insects 10383

***Pristiphora abietina***

ecology, population dynamics 6797

*Picea*, Austria 6797*Picea abies*, Austria 10971

predators 10971

***Pristiphora erichsonii****Larix laricina*

damage 3661

interactions 3661

Quebec 2712, 3661

***Pristiphora leucopodia***, taxonomy 5795***Pristiphora tenuisera***

distribution, Europe 5795

taxonomy 5795

***Pristomerus***, hosts, *Prophantis smaragdina* 3604***Pristomerus bullis***hosts, *Maliarpha separatella* 1212

taxonomy, new species 1212

***Pristomerus callis***hosts, *Maliarpha separatella* 1212

rice, habitats, Africa 1212

***Pristomerus caris***, taxonomy, new species 1212***Pritchardia***, *Loulucoris*, Hawaii 11103***Proacrias***, hosts, *Phytoliriomyza jacarandae* 10982***Probergrothius nigricornis***, morphology, sense organs 5831***Procamburus clarkii***, insecticides, effects 11634***Procamburus zonangulus***, insecticides, effects 11634***Procecidochares flavipes***

biology, behaviour 2726

*Brickellia*, California 2726

morphology 2726

parasitoids 2726

***Procecidochares utilis****Ageratina adenophora*

galls 8987

South Africa 8987

control, *Ageratina adenophora* 822**Proceedings** (see Conferences)**Prochloraz**effects, *Apis mellifera* 5193mixtures, toxicity, *Alectoris rufa* 8569toxicity, *Metarhizium anisopliae* 2307***Prociphilus himalayensis***

biology 1693

food plants, India 1693

***Prociphilus xylostei***, *Picea abies*, UK 8922**Procliticini**, taxonomy 4867***Procontarinia allahabadensis***

mangoes 932

morphology 932



**Procornitermes**  
control, chemical control 9721  
ecology, population dynamics 3476  
rice, Goias 3476, 9721

**Procridinae**, taxonomy 9060

**Proctacanthus**  
North America 7340  
prey, arthropods 7340

**Proctacanthus milbertii**  
North America 7340  
prey, arthropods 7340

**Proctolaelaps deleoni**  
biology, environmental factors 1968  
prey, free living nematodes 1968

**Proctotrupidae**  
attractants 6396  
Hawaii 6396

**Proctotrupeidae**, wheat, fields, UK 7496

**Prodenia litura** (see *Spodoptera litura*)

**Prodoxidae**  
genetics, mitochondrial DNA 5984  
taxonomy, phylogeny 5984  
*Yucca* 5984

**Profenofos**  
control  
    *Bemisia tabaci*, tomatoes 8742  
    insect pests, cabbages 3515  
    *Keiferia lycopersicella*, tomatoes 2531  
    Noctuidae, cotton 11969  
    *Spodoptera littoralis*, cotton 2626  
degradation, glass 9404  
effects  
    fungi 10594  
    *Nomuraea rileyi* 4144  
    *Paratya australiensis* 9609  
    soil 10640  
    soil fungi 10640  
formulations 11968  
mixtures  
    control  
        *Bemisia tabaci*, tomatoes 4521  
        Noctuidae, cotton 11969  
    toxicity, *Bemisia tabaci* 5616  
resistance  
    *Aphis gossypii* 10551  
    *Bemisia tabaci* 5616, 11587  
    *Heliothis virescens* 9584  
    *Myzus persicae* 5608  
toxicity  
    *Apis mellifera* 3361  
    Braconidae 10587  
    *Heliothis virescens* 9404, 11968  
    *Steinernema carpocapsae* 7583  
    with cypermethrin, effects, Acrididae 4079

**Profenprox**, usage 1314

**Profenusa**, distribution, China 8078

**Profenusa thomsoni**  
*Betula papyrifera*, New York 3954  
predators 3954

**Proisotoma minuta**  
biology, behaviour 5676  
ectomycorrhizas 5676  
*Pinus taeda* 5676  
*Rhizoctonia solani* 5676  
soil, Egypt 47

**Prokaryotes**, hosts, Aphidoidea, symbionts 7306

**Prokelisia marginata**  
ecology  
    population dynamics 5165  
    models 247  
Florida 247  
parasitoids 217, 247, 5165, 5175  
salt marshes, Florida 5165  
*Spartina alterniflora*  
    California 2752  
    Michigan 5175

**Prolatus aciculata**  
biology, behaviour 5158  
*Dalbergia sissoo*, habitats, India 5158  
hosts, *Sinoxylon anale* 5158

**Promachus albifacies**  
biology, behaviour 7183  
New Mexico 7183

**Promet** (see Furathiocarb)

**Propaphos**  
chemistry 4244  
resistance  
    *Nephotettix cincticeps* 7539

**Propaphos cont.**  
resistance cont.  
    *Nilaparvata lugens* 4436  
    *Sogatella furcifera* 4437

**Propargite**  
control  
    Acari, apples 9839  
    arthropod pests, strawberries 11868  
    *Panonychus citri*, *Ziziphus mauritiana* 7859  
    *Tetranychus urticae*, apples 5522  
effects  
    *Brevipalpus phoenicis* 4594  
    *Oligota fageli* 5523  
mixtures, toxicity, *Tetranychus urticae* 7534  
nontarget effects, predatory mites 9839  
residues, tomatoes 1522  
resistance, *Tetranychus urticae* 2724, 4579  
toxicity  
    arthropods 4251  
    *Tetranychus urticae* 6342, 7534

**6-(1-Propenyl)-5,6-dihydro-5-hydroxy-  
pyran-2-one**  
effects  
    entomogenous fungi 4149  
    Tephritidae 4149

**Propetamphos**  
residues  
    sewage sludge 4334  
    water 10633  
    determination 10633  
toxicity  
    *Steinernema carpocapsae* 7583  
    stored products pests 833

**Prophantis smaragdina**  
coffee, Kenya 3604  
parasitoids 3604

**Prophylocnistis**, taxonomy, new genus 5794

**Prophylocnistis epidrimys**  
*Drimys winteri*, Chile 5794  
parasitoids 5794  
taxonomy, new species 5794

**Propiconazole**  
effects, *Spodoptera eridania* 4250  
mixtures, nontarget effects, beneficial  
    insects 6451, 9675  
nontarget effects  
    beneficial insects 6451, 9675  
    Coleoptera 10702  
    insect pests, wheat 2324  
residues, precipitation 4341  
toxicity, *Metarhizium anisopliae* 2307

**Propicroscytus mirificus**  
hosts, *Orseolia oryzae* 4438  
rice, fields, Sri Lanka 4438

**Propionic acid**, effects, Coleoptera 9558

**Propoxur**  
control, Tingidae, oil palms 4623  
degradation  
    reaction kinetics 10512  
    *Rhodococcus* 4326  
effects, *Coryca cephalonica* 11048  
residues  
    commodities 11396  
    determination 11396  
    precipitation 4341  
resistance  
    *Nephotettix cincticeps* 437  
    *Oulema oryzae* 9562  
    soil, humic acids, interactions 2364  
    toxicity, Heteroptera 8492

**Proprioseiopsis asetus**  
oranges, Florida 5520  
taxonomy 5520

**Proprioseiopsis rotundus**  
oranges, Florida 5520  
taxonomy 5520

**Propylea dissecta**, prey, *Aphis affinis* 8955

**Propylea japonica**  
ecology, distribution 3491  
prey, Aphidoidea 3491  
soyabeans, fields, China 3491

**Propylea quatuordecimpunctata**  
biology  
    behaviour 6176  
    reproduction 1873  
crops, fields, Yugoslavia 6166  
distribution, USA 4041  
ecology 6166

**Propylea quatuordecimpunctata cont.**  
ecology cont.  
    population dynamics 3227  
faba beans  
    fields  
        Belgium 7734  
        Germany 7736  
genetics, genetic markers 3152  
prey  
    *Aphis fabae* 7734  
    *Diuraphis noxia* 6176  
UK 3227

**Prorinotermes simplex**  
Florida 6968  
taxonomy 6968

**Prorops nasuta**, hosts, *Hypothenemus hampei* 3600

**Proserpinus clarkiae**  
biology, life cycle 8945  
Onagraceae, California 8945

**Prosopis alba**  
*Dorcacerus barbatus*, Argentina 4689  
*Melipotis indomita* 821

**Prosopis cineraria**  
insect pests, Rajasthan 750  
insects  
    pollination 3649  
    Rajasthan 3649

**Prosopis flexuosa**, *Melipotis indomita* 821

**Prosopis glandulosa** var. *glandulosa*, *Melipotis indomita* 821

**Prosopis glandulosa** var. *torreyana*, *Melipotis indomita* 821

**Prosopis juliflora**, *Melipotis indomita* 821

**Prosopis juliflora** var. *glandulosa* (see *Prosopis glandulosa*)

**Prosopis laevigata**, *Melipotis indomita* 821

**Prosopis nigra**  
insects  
    Argentina 2102  
    pollination 2102

**Prosopis pubescens**, *Melipotis indomita* 821

**Prosopis reptans** var. *cinerascens*, *Melipotis indomita* 821

**Prosopis ruscifolia**, *Melipotis indomita* 821

**Prosopis velutina**  
*Melipotis indomita* 821  
*Thasus neocalifornicus*, USA 9065

**Prospaltella berlesei** (see *Encarsia berlesei*)

**Prostephanus truncatus**  
biology 5739  
    behaviour 7932, 9312  
    feeding 3699  
cereals, commodities 4801  
control, chemical control 1770  
food plants, Mexico 7932  
maize  
    commodities 842, 1770, 3699  
    damage 4800  
    Mexico 4800  
    Mexico 7932  
    monitoring, traps 7932, 8349  
    pathogens 7436  
    plant extracts  
        effects 4801  
        toxicity 842  
    Togo 7436  
    wood 1771, 5739

**Prostigmata**, soil, Egypt 676

**Prostomerus bullis**, rice, habitats, Africa 1212

**Protambulyx strigilis**, parasitoids 8082

**Protea laurifolia**, insects, pollination 786

**Protea repens**, insect pests 4751

**Protein**, attractants, *Anastrepha suspensa* 673

**Proteinase inhibitors**  
effects  
    *Acyrtosiphon pisum* 11566  
    *Epilachna varivestis* 9546

**Proteinases**, effects, *Acyrtosiphon pisum* 11566

**Proteins**  
analysis 2170  
effects, *Acyrtosiphon pisum* 11566

**Proteus**, *Pyrilla perpusilla*, symbiosis 5934

**Prothiofos**  
control  
    insect pests, cowpeas 9771  
    *Tetranychus*, cotton 4653



**Prothiofos** *cont.*

- effects
  - Oligota fageli* 5523
  - predatory insects 9771
- residues
  - cabbages 11813
  - commodities 10577
  - crops 2323
  - resistance, *Plutella xylostella* 11594
  - toxicity
    - Pseudaulacaspis pentagona* 1584
    - Steinernema carpocapsae* 7583
- Prothoracicotropic hormones**, *Bombyx mori* 9391
- Protonectarina sylveirae**
  - ecology, population dynamics 4506
  - kale, fields, Minas Gerais 4506
- Protopulvinaria mangiferae**, spices, Kerala 1734
- Protopulvinaria pyriformis**
  - avocados, South Africa 10890
  - control, integrated control 10890
- Protoschinia scutosa**
  - Beijing 5272
  - monitoring, traps 5272
- Protozoa** (see also Entomopathogenic protozoa)
  - Coptotermes formosanus*, symbiosis 8996
  - insecticides, effects 6367
- Providencia rettgeri**
  - hosts, *Galleria mellonella* 9490
  - transmission, *Heterorhabditis* 9490
- Prunes**, *Plodia interpunctella* 10059
- Prunus**
  - Aphididae, Spain 11713
  - Conotrachelus nenuphar*, Georgia 6654
  - extracts, effects, *Eurytoma amygdali* 6699
  - Hyalopterus pruni*, Spain 1842
  - orchards, *Paragus hyalopteri*, Spain 1842
- Prunus amygdalus** (see Almonds)
- Prunus armeniaca** (see Apricots)
- Prunus avium** (see Cherries)
- Prunus cerasifera** (see Plums)
- Prunus cerasus** (see Cherries)
- Prunus devaricata**, *Archips rosanus*, Russia 9828
- Prunus domestica** (see Plums)
- Prunus dulcis** (see Almonds)
- Prunus emarginata**, *Thrips pruni* 919
- Prunus japonica**, *Conotrachelus nenuphar*, Georgia 6654
- Prunus mume** (see Apricots)
- Prunus padus**
  - extracts, repellents, Aphididae 5400
  - Rhopalosiphum padi* 5829
  - France 7640
  - Tydeus parainflatus*, Sweden 8057
  - Yponomeuta evonymellus*, UK 12003
- Prunus persica** (see Nectarines; Peaches)
- Prunus salicina**
  - insecticides, effects 6655
  - Tetranychus*, California 6655
- Prunus serotina**, *Caloptilia serotinella* 6059
- Prunus spinosa**, *Abraxas grossulariata* 4566
- Prunus virginiana**, *Rhopalosiphum padi*, Ontario 6007
- Prunus yedoensis**, *Deporaus septemtrionalis*, Japan 8084
- Psacotha hilaris**
  - biology, diapause 10870
  - temperate tree fruits, Japan 10870
- Psallus**, taxonomy, new species 10314
- Psallus falleni**
  - Betula*, Nei Menggu 10314
  - distribution, China 10314
- Psammodius**
  - India 6982
  - taxonomy 6982
- Psammotermes**, South Asia 11460
- Psammotettix alienus** (see *P. striatus*)
- Psammotettix striatus**
  - control, chemical control 10699
  - plant pathogens, transmission 10699
  - wheat, France 10699
- Psara**, parasitoids 9094
- Pselactus spadix**
  - marine structures
  - damage 12081
  - UK 12081
- Pselaphidae**, Nicaragua 10318

**Pselaphocheernes scorpioides**

- biology, behaviour 11427
- prey, *Heteromurus nitidus* 11427
- Pselaphorhynchites naso**
  - biology, life cycle 3638
  - Quercus wislizenii*, California 3638
- Psenulus schencki**
  - Ailanthus altissima*, Spain 10002
  - morphology 10002
- Pseudacris crucifer**, insecticides, residues 9606
- Pseudacris regilla**, insecticides, toxicity 6362
- Pseudacteon**
  - Brazil 11412
  - forests, habitats, Costa Rica 3191
  - hosts
    - Solenopsis* 11412
    - Solenopsis geminata* 3191
- Pseudacteon curvatus**, hosts, *Solenopsis saevissima* 8363
- Pseudacteon litoralis**
  - biology, development 11429
  - hosts
    - Solenopsis invicta* 11429
    - Solenopsis saevissima* 8363
- Pseudacteon obtusus**, hosts, *Solenopsis saevissima* 8363
- Pseudacteon pradei**, hosts, *Solenopsis saevissima* 8363
- Pseudacteon tricuspidis**, hosts, *Solenopsis saevissima* 8363
- Pseudacysta perseae**, avocados, Florida 5561
- Pseudaletia separata** (see *Mythimna separata*)
- Pseudaletia unipuncta** (see *Mythimna unipuncta*)
- Pseudanastatus albitarsis** (see *Anastatus albitarsis*)
- Pseudaphritis urvillii**, pesticides, toxicity 5326
- Pseudasphondylia neolitseae**, *Neolitsea sericea*, Japan 6802
- Pseudatomoscelis seriatus**
  - cotton
    - fields, Texas 4670
    - resistance 2630
  - prey, *Helicoverpa zea* 4670
- Pseudaulacaspis cockerelli**
  - Actinidia, Hunan 7357
  - parasitoids 7285
  - predators 7357
  - spices, Kerala 1734
- Pseudaulacaspis pentagona**
  - biology 1548
  - behaviour 11844
  - Capsicum* 4868
  - control, chemical control 1548, 11844, 11957
  - fruits, Italy 11844
  - genetics, population genetics 7836
  - insecticides, toxicity 1584
  - kiwifruits
    - damage 11911
    - Italy 4568
    - Korea Republic 11911
    - monitoring, traps 11844, 11955
    - mulberries, Maryland 7836
    - parasitoids 6118, 11844, 11956
    - passion fruits 1584
    - peaches, Italy 1548
    - predators 10374, 11844
    - taxonomy 4868
    - tea, Japan 11955-11957
- Pseudendaphis**, taxonomy, synonyms, of *Endaphis* 4593
- Pseudhyperodes**, synonyms, of *Listronotus* 11124
- Pseudopterygyna numidicus**
  - Algeria 275
  - predators 275
- Pseudococcidae**
  - bacteria, symbionts 4981
  - control, biological control 8454
  - genetics, DNA 4981
  - ornamental plants, Sicily 12023
  - plant pathogens, transmission 5598
  - predators 2134
  - taxonomy 3737
- Pseudococcus**
  - Formicidae, interactions 640

**Pseudococcus** *cont.*

- taxonomy 11088
- Pseudococcus affinis**
  - control
    - biological control 9091
    - integrated control 8776
  - fruits, New Zealand 640
  - grapes 9873
  - Chile 8776
  - natural enemies 640
  - parasitoids 9091
  - plant pathogens, transmission 9873
- Pseudococcus balius**
  - Philippines 11088
  - taxonomy, new species 11088
- Pseudococcus calceolariae**
  - control, biological control 9091
  - fruits, New Zealand 640
  - natural enemies 640
  - parasitoids 9091
- Pseudococcus citriculus**
  - Amorphophallus*, commodities 4483
  - control, chemical control 4483
- Pseudococcus cryptus**, hosts, *Anagyrus pseudococci* 8394
- Pseudococcus elisae**, taxonomy 11088
- Pseudococcus longispinus**
  - control
    - biological control 9091
    - integrated control 5517
  - fruits, New Zealand 640
  - natural enemies 640
  - parasitoids 9091
  - plant pathogens, transmission 5539
  - pome fruits, Victoria 5517
  - taxonomy 11088
- Pseudococcus mandio**
  - biology, development 4499
  - cassava, Santa Catarina 4499
- Pseudococcus maritimus**
  - control 6652
  - pears, Washington 6652
- Pseudococcus saccharicola**
  - distribution, Andaman and Nicobar Islands 9922
  - sugarcane, Andaman and Nicobar Islands 9922
  - taxonomy 11088
- Pseudodendrothrips ornatissima**
  - ecology, population dynamics 9860
  - mulberries, West Bengal 9860
- Pseudogaurax**, biology, life history 2103
- Pseudogmothela rehni**
  - Namibia 9288
  - songs 9288
- Pseudogonatopus**
  - hosts, *Nilaparvata lugens* 6482
  - rice, fields, Indonesia 6482
- Pseudogonia rufifrons**
  - hosts, *Spodoptera depravata* 10008
  - lawns and turf, habitats, Tianjin 10008
- Pseudohypatopa pulvereae**
  - India 5159
  - parasitoids 5159
  - prey, *Kerria lacca* 5159
- Pseudops fagana**, Fagaceae, Slovakia 11987
- Pseudolarix amabilis**, *Boczekella pseudolaris*, Jiangsu 10104
- Pseudolarix kaempferi** (see *P. amabilis*)
- Pseudolasius**
  - biology, behaviour 7892
  - cotton, habitats, India 7892
- Pseudaletia separata** (see *Mythimna separata*)
- Pseudoleucopsis**, morphology 4829
- Pseudomonas**, insecticides, degradation 9547
- Pseudomonas fluorescens**, genetics, gene transfer 6119
- Pseudomonas syringae**
  - Cryptolestes ferrugineus*, effects 8997
  - effects, *Hippodamia convergens* 9316
- Pseudomonas syringae** pv. *japonica*, *Bombyx mori*, cecropins, effects 9152
- Pseudomyrmex concolor**
  - Tachigali myrmecophila*
  - Amazonas 2683
  - interactions 2683
- Pseudomyrmex ferrugineus**, *Acacia*, interactions 9072
- Pseudomyrmex ferrugineus** group, evolution 9072



- Pseudomyrmex janzeni***, taxonomy, new species 9072
- Pseudomyrmex mixtecus***, taxonomy, new species 9072
- Pseudomyrmex particeps***, taxonomy, new species 9072
- Pseudophonus calceatus***  
biology, migration 1075  
Moldova 1075
- Pseudopachybrachius vinctus***, distribution, Turks and Caicos Islands 6099
- Pseudopachymerina spinipes***  
Acacia caven, Chile 5564  
ecology 5564
- Pseudophonus rufipes*** (see *Harpalus rufipes*)
- Pseudopleuronectes americanus***, pesticides, residues 2344
- Pseudoplusia includens*** (see *Chrysodeixis includens*)
- Pseudorca crassidens***, organochlorine compounds, residues 1342
- Pseudoregma***  
bamboos, Thailand 11008  
cultural methods, effects 2738  
*Thyrsostachys siamensis*, Thailand 2738
- Pseudoregma bambucicola***  
Asia 5812  
*Bambusa multiplex*, Kyushu 10378  
predators 10378  
*Styrax suberifolia*  
galls 5812  
Taiwan 5812  
taxonomy, synonyms, *Astegopteryx swinhoi* 5812
- Pseudoregma koshunensis***  
*Bambusa multiplex*, Japan 3924  
biology, caste 3924
- Pseudoscymnus kurohime***  
biology, feeding behaviour 329  
prey, *Ceratovacuna lanigera* 329
- Pseudoscymnus sylvaticus***, *Styrax japonica*, habitats, Honshu 6774
- Pseudosphinx tetrio***, *Plumeria rubra*, Florida 8939
- Pseudotelphusa***  
*Betula*, Quebec 4692  
biology, behaviour 4692  
ecology, population dynamics 4692
- Pseudotheraptus wayi***  
avocados  
damage 4545  
South Africa 4545  
coconuts, Tanzania 9915  
mangoes, South Africa 10883  
parasitoids 1222, 10883  
pecans  
damage 9905  
South Africa 9905  
predators 9915
- Pseudotorymus***  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditschiae* 5155
- Pseudotorymus leguminum***  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditschiae* 5155
- Pseudotsuga menziesii***  
*Choristoneura occidentalis* 4746  
Arizona 9998  
Colorado 8899  
Idaho 9997  
Mexico 8896  
outbreaks 8899  
resistance 9997  
commodities, insect pests, New Zealand 1767  
*Dendroctonus micans* 5662  
*Dendroctonus pseudotsugae*, Oregon 8925  
*Dendroctonus rufipennis*  
Colorado 3656  
outbreaks 3656  
habitats, Collembola, British Columbia 6799  
*Hylobius abietis*, France 1704  
insect pests  
British Columbia 6800  
Oregon 7962
- Pseudotsuga menziesii* cont.**  
*Megastigmus spermotrophus*, Poland 2713  
*Orgyia pseudotsugata*  
damage 8930  
outbreaks 8930  
Utah 8930  
*Pityophthorus orarius*, California 7961
- Scolytidae**  
British Columbia 6778  
California 10961  
Oregon 8994  
wood  
*Coptotermes formosanus* 5731  
Hawaii 838, 8023  
resistance 1764  
*Dendroctonus pseudotsugae*, Idaho 8995  
Scolytidae 8994
- Pseudotsuga menziesii* var. *glauca***, *Choristoneura occidentalis*, Oregon 4720
- Psidium guajava*** (see *Guavas*)
- Psila rosae***  
carrots  
British Columbia 1496  
Denmark 606  
celeriac, Belgium 2790  
control, chemical control 606, 2790  
monitoring, traps 1496
- Psiloptera***  
Acacia, Sudan 6776  
taxonomy 4862
- Psocidae***  
avocados, commodities, New Zealand 11038  
control, chemical control 11038
- Psocoptera***  
attractants 1650  
books 5771  
distribution, Europe 10028  
ecology, habitats 8855  
forest trees, habitats, Spain 8855  
Germany 1650  
maize  
commodities  
damage 4800  
Mexico 4800  
morphology 2873  
North America 5771  
phylogeny 2873  
taxonomy 5771
- Psorocampa denticulata***  
*Eucalyptus*, Brazil 1660  
*Eucalyptus urophylla*, Minas Gerais 4694
- Psorodonotus illyricus***  
physiology, sense organs 989, 8110  
songs 988
- Psorolya***, taxonomy 4866
- Psychidae***, kiwifruits, Italy 4568
- Psylla crataegi***  
*Crataegus*, Germany 6813  
ecology, population dynamics 6813  
Formicidae, interactions 6813  
parasitoids 6813
- Psylla mali*** (see *Cacopsylla mali*)
- Psylla melanoneura***  
*Crataegus*, Germany 6813  
ecology, population dynamics 6813  
Formicidae, interactions 6813  
parasitoids 6813  
predators 6813
- Psylla peregrina***  
*Crataegus*, Germany 6813  
ecology, population dynamics 6813  
Formicidae, interactions 6813  
parasitoids 6813  
predators 6813
- Psylla pyri*** (see *Cacopsylla pyri*)
- Psylla pyrisuga*** (see *Cacopsylla pyrisuga*)
- Psyllaephagus***  
*Boronia megastigma*, habitats, Tasmania 1737  
hosts, *Ctenarytaina thysanura* 1737
- Psyllaephagus yaseeni***  
biology, reproduction 2128  
hosts, *Heteropsylla cubana* 2128, 7348  
*Tamarixia leucaenae*, competition 7348
- Psyllidae***  
*Citrus*  
resistance 1570  
South Africa 1570
- Psyllidae* cont.**  
genetics, nucleotide sequences 160  
Nicaragua 10295  
phylogeny 160
- Psyllina***, genetics, chromosomes 1928
- Psylliodes***, sugarbeet, Czech Republic 5588
- Psylliodes chrysocephala***  
biological control agents, evaluation 3291  
biology, behaviour 4620, 7005  
crops, Sweden 1300  
morphology, sense organs 7005  
pathogens 3291  
rape  
Poland 3575  
resistance 3575  
sarsen 7005  
Europe 4620
- Psylliodes luteola***, taxonomy 742
- Psylliodes picina***, taxonomy 742
- Psylliodes ruficolor***  
*Quercus ilex*, Mediterranean region 742  
taxonomy, new species 742
- Psylloides***, taxonomy 742
- Psylloides chrysocephala***  
crops, Germany 2130  
parasitoids 2130
- Psytalia fletcheri***  
Hawaii 3226  
hosts, Tephritidae 3226
- Psytalia incisi***  
biology, behaviour 5565  
control, *Bactrocera dorsalis*, guavas 5565
- Pterandrus rosa*** (see *Ceratitis rosa*)
- Pteridium aquilinum***  
*Aneugmenus flavipes*, Maryland 8175  
control, biological control 830, 11031  
extracts, moulting hormones 5371
- Pterocallis alnijaponicae***, distribution, Korea Republic 6964
- Pterocarpus macrocarpus***  
*Aristolobia horridula*  
damage 8889  
Thailand 8889
- Pterocarpus marsupium***, *Arytaina marsupiae*, Tamil Nadu 10094
- Pterocarya stenoptera***, *Locastra muscosalis*, Korea Republic 6701
- Pterohelaeus alternatus***  
control  
chemical control 5396  
integrated control 5396  
ecology, population dynamics 5396  
field crops, Queensland 5396  
pathogens 5396
- Pterohelaeus darlingensis***  
control  
chemical control 5396  
integrated control 5396  
ecology, population dynamics 5396  
field crops, Queensland 5396  
pathogens 5396
- Pterolonche dispersa***  
biology, oviposition 4353  
plant extracts, effects 4353
- Pteroma plagiophleps***, *Paraserianthes falcata*, India 2679
- Pteromalidae***  
ecology, habitats 4462  
forests, Austria 5028  
hosts  
*Hydrellia wirthi* 3475  
Hymenoptera 563  
insect pests 4462  
taxonomy 2857, 6960  
*Trifolium pratense*, habitats, Germany 4462
- Pteromalus***  
California 5016  
*Crataegus*, habitats, Washington 2746  
hosts  
*Nematus oligospilus* 10948  
*Paroxyna genalis* 5016  
*Procecidochares flavipes* 2726  
*Rhagoletis pomonella* 2746  
*Tephritis arizonensis* 829  
*Salix*, habitats, Southern Africa 10948
- Pteromalus apum***, biology, reproduction 2888
- Pteromalus cerealellae***, hosts, *Sitotroga cerealella* 2783



- Pteromalus grandis*, taxonomy, synonyms, of *Pteromalus varians* 9049
- Pteromalus latipennis*, taxonomy, synonyms, of *Pteromalus varians* 9049
- Pteromalus puparum*  
Citrus, orchards, South Africa 1574  
growth regulators, effects 7623  
hosts, *Papilio demodocus* 1574
- Pteromalus tenuicornis*, taxonomy, synonyms, of *Pteromalus varians* 9049
- Pteromalus varians*, taxonomy, from *Diplolepis* 9049
- Pteromalus venustus* (see *P. apum*)
- Pteromicra oldenbergi*, distribution, Slovakia 10322
- Pteronia empetrifolia*  
*Desmella anceps*  
damage 8685  
South Africa 8685
- Pteronia pallens*  
*Desmella anceps*  
damage 8685  
South Africa 8685
- Pterophoridae**  
distribution, Lithuania 1153  
Galapagos Islands 5091
- Pterophoroidea**, taxonomy 5814
- Pteroptrix smithi*, hosts, Diaspididae 7256
- Pterostichus**  
apples, orchards, California 4558, 11851  
biology, behaviour 4399  
cereals, fields, Switzerland 4399  
cultural methods, effects 4399  
ecology, population dynamics 4399  
Europe 947, 8055  
insecticides, effects 11851  
monitoring, traps 4399  
prey, *Cydia pomonella* 4558  
taxonomy 947, 8055
- Pterostichus adstrictus*  
biology, behaviour 223  
prey, snails 223
- Pterostichus caeruleus*  
habitats, Poland 536  
radishes  
damage 8720  
Hokkaido 8720
- Pterostichus chalcites*  
maize, fields, Virginia 3437  
prey, *Mythimna unipuncta* 3437
- Pterostichus cristatus*, Germany 1128
- Pterostichus cupreus*  
biology  
behaviour 4396, 9678  
environmental factors 5068  
cereals, fields, Sweden 4396  
diets 4057  
fields, Sweden 586  
insecticides  
effects 4293  
residues 6369  
monitoring, traps 1224  
prey  
*Acyrtosiphon pisum* 586  
Aphididae 7658  
insects 1103  
*Rhopalosiphum padi* 4396  
rearing techniques 4057  
wheat  
fields  
Germany 1224  
Switzerland 9678
- Pterostichus cursor*  
apples, orchards, California 4558  
prey, *Cydia pomonella* 4558
- Pterostichus diligens*  
grasslands, UK 5453  
habitats, Germany 6998  
morphology, wings 6998  
peatlands, UK 8289
- Pterostichus haptoderoides*  
biology, environmental factors  
radishes  
damage 8720, 10793  
Hokkaido 8720
- Pterostichus lepidus*  
biology, behaviour 1121  
ecology, habitats 1121
- Pterostichus lucublandus*, prey, *Mythimna unipuncta* 3437
- Pterostichus lucublandus*  
maize, fields, Virginia 3437  
monitoring, traps 5533  
raspberries, fields, Quebec 5533
- Pterostichus lustrans*  
apples, orchards, California 4558  
prey, *Cydia pomonella* 4558
- Pterostichus madidus*  
barley, fields, UK 6452, 7673  
biology  
behaviour 7673  
environmental factors 6452
- Pterostichus melanarius*  
Alberta 8375  
barley  
fields  
Finland 11562  
UK 6035, 6452, 7673  
biology  
behaviour 4396, 7673  
environmental factors 6452  
cereals, fields, Sweden 4396  
ecology  
dispersal 6035  
habitats 8375  
fields, Sweden 586  
insecticides, toxicity 4308  
monitoring, traps 5533, 10693  
pollutants, effects 11562  
prey  
*Acyrtosiphon pisum* 586  
*Deroceras reticulatum*, monitoring 9390  
*Rhopalosiphum padi* 4396  
raspberries, fields, Quebec 5533  
UK 4308  
wheat, fields, Finland 10693
- Pterostichus niger*  
barley  
fields  
Finland 11562  
UK 6035  
biology, behaviour 4396  
cereals, fields, Sweden 4396  
ecology, dispersal 6035  
heavy metals, effects 11561  
pollutants, effects 11562  
prey  
*Rhopalosiphum padi* 4396  
*Tenebrio molitor* 11561
- Pterostichus nigrita*, peatlands, UK 8289
- Pterostichus pennsylvanicus*  
biology, behaviour 223  
prey, snails 223
- Pterostichus planicollis*  
biology, environmental factors 10793  
radishes, damage 10793
- Pterostichus protractus*  
biology, behaviour 223  
prey, snails 223
- Pterostichus strenuus*  
habitats, Germany 6998  
morphology, wings 6998
- Pterostichus surgens*  
biology, behaviour 223  
prey, snails 223
- Pterostichus vernalis*  
biology, behaviour 203  
fields, Belgium 203
- Pterostichus versicolor*  
biology  
behaviour 1105  
environmental factors 237
- Pteroteinon lauffella*  
oil palms, Cote d'Ivoire 1598  
pathogens 1598
- Pterygogramma membraciphagum*  
hosts, Hemiptera 4838  
South America 4838  
taxonomy, new species 4838
- Ptilineurus marmoratus*  
biology, life history 718  
*Boehmeria tricuspidis*, Anhui 718  
control, chemical control 718
- Ptilopodius*, taxonomy 1810
- Ptilopodius ater*, taxonomy, from *Cryphalophilus* 1810
- Pinus*, taxonomy 9080
- Pinus clavipes*  
crops, commodities 9015  
distribution, Greece 9015
- Pinus clavipes* cont.  
morphology 9015
- Pinus fur*, taxonomy 9080
- Pinus sexpunctatus*, prey, *Osmia tricornis* 5148
- Pinus tectus*, rearing techniques 6121
- Ptocheuusa**  
biology, life cycle 8303  
UK 8303
- Ptychocheilus lucius*, insecticides, toxicity 1340, 3376
- Ptychosperma macarthurii*, *Metamasius hemipterus sericeus*, Florida 2239
- Puccinia carduorum*, vectors, Coleoptera 2764
- Puccinia recondita*, *Sitobion avenae*, interactions 5411
- Pueraria lobata**  
habitats, *Oligota kashmirica benefica*, Japan 614  
*Oligota kashmirica benefica*, Japan 613  
*Tetranychus okinawanus*, Ryukyu Archipelago 10107  
*Tetranychus urticae*, Japan 614
- Pueraria thunbergiana**, *Ceratomyza tingomarianus*, Acre 1409
- Puerto Rico**  
cabbages  
*Spodoptera* 3519  
*Spodoptera albula* 3518  
*Capsicum annuum*, *Anthonomus eugeniae* 3527  
Citrus, *Toxoptera citricidus* 4591  
coffee, *Perileucoptera coffeella* 11959  
*Cyrtilla racemiflora*, habitats, insects 6767  
*Dacryodes excelsa*, forests, snails 1239  
*Dismorphia amphione*, parasitoids 7339  
dog foods  
habitats, *Anisopteromalus calandrae* 6884  
*Lasioderma serricornis* 6884  
food plants, *Lamponius portoricensis* 3686-3687  
forest trees  
arthropods 3626  
*Incisitermes furvus* 3763  
insects 10326  
rice, *Diatraea saccharalis* 10739
- Pugilina cochlidium**, biochemistry, enzymes 1882
- Pulastya**, Oriental Region 49
- Pulastya acutipennis*, taxonomy, synonyms, of *Colobesthes taprobana* 49
- Pulicaria undulata*, oils, toxicity, Coleoptera 6313
- Pulvinaria flavescens**  
Citrus  
Brasilia 3559  
resistance 3559  
distribution, Brasilia 3559  
natural enemies 3559
- Pulvinaria regalis**  
biology, reproduction 5634  
forest trees 5634
- Pummelos**  
*Anoplophora versteegii*, Assam 9884  
pollen, *Euseius mesembrinus* 3220
- Pumpkins** (see also *Cucurbita* spp.)  
*Bactrocera depressa*  
damage 6599  
Korea Republic 6599  
*Bactrocera tau* 2540  
*Bemisia tabaci*, Costa Rica 629  
Chrysomelidae, Kentucky 4519  
commodities, pesticides, residues 7572  
insecticides, residues 4519  
*Planococcus citri* 5553  
*Thrips nigropilosus* 529  
*Trialeurodes vaporariorum*  
damage 11823  
Uzbekistan 11823
- Punica**, *Aleurocanthus woglumi* 10046
- Punica granatum** (see Pomegranates)
- Purple granadilla mosaic virus**, vectors, *Diabrotica speciosa* 10892
- Puto superbus**  
*Arrhenatherum elatius*, Italy 5449  
biology 5449  
morphology 5449
- Putoniessa**, taxonomy 6963



**Putoniessa variegata**  
    *Eucalyptus saligna* 6963  
    taxonomy, new species 6963

**Pycnobraconoides froggati**, taxonomy, from  
    *Bracon* 4855

**Pycnoscelus**  
    biology, life history 3712  
    control, chemical control 3712  
    medicinal plants, commodities,  
        Guangdong 3712

**Pyemotes tritici**  
    biology 8362  
        behaviour 2219  
    *Bromus*, seeds, Michigan 3193  
    control  
        chemical control 3193  
        *Ephestia kuehniella*, evaluation 2219  
    hosts  
        *Chrysoperla carnea* 8362  
        *Ephestia kuehniella* 2219  
    man, dermatitis 3193

**Pyemotes ventricosus**  
    flour mills, Italy 6879  
    hosts, storage mites 6879

**Pygaera cupreata** (see *Clostera cupreata*)

**Pygaera fulgurita** (see *Clostera fulgurita*)

**Pygidicranidae**, morphology 5844

**Pygmephoridae**, *Heterotermes tenuis*, inter-  
    actions 2144

**Pygostolus**  
    hosts, Curculionidae 11109  
    taxonomy 11109

**Pygostolus falcatus**, taxonomy 11109

**Pygostolus otiorhynchi**, taxonomy 11109

**Pymetrocine**, control, *Bemisia tabaci*, toma-  
    toes 8742

**Pymetrozine**, control, Aphididae, vegetables  
    6604

**Pyraecantha**  
    *Lonchodes harmani*, Brunei Darussalam  
        2847  
    *Phyllonorycter leucographella*, UK 8946,  
        12029

**Pyraclifos**  
    effects, aquatic environments 4346  
    toxicity, *Steinernema carpocapsae* 7583

**Pyralidae**  
    cereals, Germany 9671  
    collections 6974  
    insects as food 11470  
    Korea Democratic People's Republic  
        6974  
    parasitoids 7345, 11108  
    tillage, effects 9671

**Pyraloidea**  
    ecology, population dynamics 728  
    forests, Kalimantan 728  
    monitoring, traps 728

**2H-Pyran-3(6H)-ones**, effects, Tetrany-  
    chidae 4276

**Pyrausta aurata**  
    maize, Italy 5419  
    monitoring, traps 5419

**Pyrazophos**  
    application 10526  
    control, Thysanoptera, cereals 3424  
    effects, *Pterostichus cupreus* 4293  
    mixtures  
        nontarget effects  
            beneficial insects 6451, 9675  
            Coleoptera 10702  
    nontarget effects  
        beneficial insects 6451, 9675  
        insect pests, wheat 2324  
    registration, Poland 10526  
    residues, tomatoes 5358  
    resistance, *Liriomyza trifolii* 10563  
    toxicity, insects 439

**Pyrethrins**  
    control  
        *Aconicta rumicis* 7635  
        arthropod pests, strawberries 11868  
        *Bemisia tabaci*, vegetables 11774  
        *Thrips palmi*, vegetables 11775  
    effects  
        man 3703  
        *Stethopachys formosa* 12039  
    production 805  
    resistance, Aphididae 7543, 7552  
    toxicity, *Choristoneura occidentalis*  
        10506

**Pyrethroic acids**, synthesis 260

**Pyrethroid acaricides**, control, *Tetranychus*  
    *urticae*, apples 5522

**Pyrethroid insecticides**  
    analysis 2293  
    control  
        *Antigastra catalaunalis*, sesame 7874,  
            11942  
        *Aphis gossypii*, cotton 2636  
        Coleoptera, *Plectorhynchus mediter-*  
            *ranus*, commodities 8991  
        *Cydia nigricana* 9526  
        insect pests  
            forest trees 1644  
            soyabeans 9750  
            wheat 11724  
        *Plutella xylostella*, cabbages 1504,  
            10801  
    effects, *Drosophila melanogaster* 5305  
    formulations, analytical methods 10333  
    mixtures  
        control  
            *Helicoverpa armigera* 10682  
            *Myllocerinus aurolineatus*, tea  
                9933  
        mode of action, reviews 7522  
    nontarget effects  
        Araneae 6169  
        beneficial insects 6522  
        *Neoseiulus fallacis* 649  
    residues  
        dwellings 7606  
        foods, analytical methods 10331  
        tea, commodities 6886  
    resistance  
        *Anthonomus grandis* 9958  
        *Aphis gossypii* 8507, 10551  
        *Bemisia tabaci* 3335  
        *Cydia pomonella* 10841  
        *Drosophila melanogaster* 5304  
        *Frankliniella occidentalis* 4977  
        *Helicoverpa armigera* 5110, 6455,  
            6733, 9559, 10536, 10543,  
            10682, 11970  
        *Heliothis virescens* 9402, 9404  
        *Helopeltis theivora* 3607  
        *Liposcelis bostrychophilus* 8020  
        *Neoseiulus longispinosus* 449  
        *Pectinophora gossypiella* 8502  
        *Phyllotreta cruciferae* 6338  
        *Plutella xylostella* 9650, 10206  
        *Spodoptera exigua* 6327  
        *Spodoptera litura* 10553  
    reviews 10522  
    sorption, soil 9643  
    synergists 8507  
    toxicity  
        *Apis mellifera* 3361  
        *Cheilomenes sexmaculata* 11611  
        *Hypsipyla robusta* 8890  
        *Steinernema carpocapsae* 7583  
    usage, Argentina 3298

**Pyrethroid pesticides**, determination 7572

**Pyrethroids**  
    effects  
        *Locusta* 1321  
        *Megadril* 7563  
        *Paramecium tetraurelia* 10595  
    mode of action 2273  
    residues, agricultural products, analysis  
        4807  
    resistance  
        *Helicoverpa armigera* 5302  
        *Helicoverpa zea* 10538  
    synthesis 5289

**Pyrethrum** (see Pyrethrins)

**Pyrgomorpha cognata**, Algeria 9362

**Pyrgomorpha conica**, genetics, chromo-  
    somes 1929

**Pyrgomorphidae**  
    Australia 5163  
    genetics 1032  
    Guangdong 7327  
    India 1032

**Pyrgomorphinae**, ectoparasites 5163

**Pyricularia grisea** (see *Magnaporthe grisea*)

**Pyricularia oryzae** (see *Magnaporthe grisea*)

**Pyridaben**  
    activity 11568  
    chemistry 7516, 11568

**Pyridaben cont.**  
    control  
        Acari  
            apples 11856  
            *Citrus* 8782  
            *Aculus schlechtendali* 2225  
            arthropod pests, *Citrus* 11900  
            mode of action 3313  
            nontarget effects, beneficial arthropods  
                11856  
            pesticidal properties 5280  
            structure 5280  
            toxicity 7516  
                Tetranychidae 9563  
                *Tetranychus urticae* 6342

**Pyridaphenthion**  
    control  
        *Aceria macrodonis*, *Lycium chinense*  
            7982  
        Eriophyidae, grapes 9869  
        *Metcalfa pruinosa*, fruits 11854  
    residues, man 465

**2-Pyridazolinones**, antifeedants, *Spodoptera*  
    *littoralis* 2735

**N-(Pyrid-3-yl)carbodiimides**, effects,  
    Tetranychidae 6333

**N-(Pyrid-3-yl)isothioureas**, effects, Tetrany-  
    chidae 6333

**N-(Pyrid-3-yl)thioureas**, effects, Tetrany-  
    chidae 6333

**Pyrilla perpusilla**  
    biology 3592  
        environmental factors 3589, 11943  
    control, biological control 3593-3594  
    ectoparasites 11943  
    parasitoids 331, 5182  
    pathogens 6722  
    *Proteus*, symbiosis 5934  
    sugarcane  
        Gujarat 3592, 11943  
        India 3589, 3593-3594, 5587  
        reviews 5583  
        Uttar Pradesh 6722  
        yield losses 5587

**Pyriproxyfen**  
    control  
        Aleyrodidae, cotton 9956  
        *Bemisia tabaci*  
            cotton 5612  
            cucumbers 10835  
            tomatoes 8738  
    effects  
        Coccinellidae 444  
        insects 11591  
        *Locusta migratoria* 3875  
        *Podisus maculiventris* 7581  
        *Trialeurodes vaporariorum* 6318  
    formulations 4274  
    mixtures, control, *Bemisia tabaci*, toma-  
        toes 8738  
    resistance  
        Aleyrodidae 9956  
        *Bemisia tabaci* 4218  
    toxicity  
        *Bemisia tabaci* 4274  
        beneficial insects 11607  
        insect pests 7536-7537

**Pyrochroidae**, taxonomy 4821

**Pyroderces rileyi**, maize, commodities,  
    Colombia 11050

**Pyrops candelaria**, morphology, sensilla 56

**Pyrrhalta aenescens**  
    Beijing 11531  
    pathogens 11531

**Pyrrhalta humeralis**  
    biology, diapause 10269  
    Honshu 10269

**Pyrrhalta lineola** (see *Galerucella lineola*)

**Pyrrhalta luteola**  
    biochemistry, anthraquinones 10205  
    biological control agents, evaluation 4710  
    biology 746  
    control 746, 4707  
        biological control 745, 4708, 4711  
        chemical control 4709, 4711, 6764  
    genetics, genes, diversity 10225  
    parasitoids 336  
    plant pathogens, transmission 8881  
    predators 10205  
    *Ulmus*  
        California 745, 2671, 4711



- Pyrrhalta luteola* cont.**  
*Ulmus* cont.  
 Illinois 9976  
 resistance 9976  
 Victoria 4707-4710, 8881  
*Ulmus laevis*  
 Italy 8937  
 resistance 8937  
*Ulmus minor*, Uzbekistan 746  
*Ulmus pumila*, Nebraska 6764
- Pyrrhalta viburni***  
 biology, life cycle 12027  
 control 12027  
 distribution, Nova Scotia 5681  
 predators 12027  
*Viburnum tinus*, Italy 12027
- Pyrrhocoris apterus***  
 biochemistry, proteins 1916  
 biology  
 behaviour 6046  
 reproduction 3951  
 pathogens 7437
- Pyrrhocoris sibiricus***  
 Honshu 10270  
 morphology, wings 10270
- 1-Pyrrolines**, antifedants, *Spodoptera litoralis* 2735
- Pyrus***, *Aleurocanthus woglumi* 10046  
*Pyrus bretschneideri*, *Ledra hyalina*, Anhui 11082
- Pyrus communis*** (see Pears)
- Pyrus communis* × *Pyrus*, *Cacopsylla pyricola***, resistance 5531
- Pyrus communis* × *P. ussuriensis*, *Cacopsylla pyricola***, resistance 5531
- Pyrus pyrifolia*** (see Pears)  
*Bactrocera pyrifoliae*, Thailand 9898  
 habitats, beneficial insects, New Zealand 640  
*Pseudococcus*, New Zealand 640
- Pytho depressus***  
 biology, behaviour 2390  
*Pinus sylvestris*, Sweden 2390
- Quadraspidiotus***, apples, Switzerland 1540
- Quadraspidiotus marani***  
 biology 1535  
 morphology 1535  
 pome fruits, Switzerland 1535
- Quadraspidiotus ostreaeformis***  
 biology 1535  
 hazelnuts  
 America 9907  
 Europe 9907  
 morphology 1535  
 pome fruits, Switzerland 1535
- Quadraspidiotus perniciosus***  
 almonds, California 6700  
 apples  
 Tennessee 8751  
 West Virginia 651  
 Yugoslavia 1539  
 biology 1535, 7808  
 control 6652, 7808  
 chemical control 8751, 12030  
 integrated control 6700, 8776  
 ecology, spatial distribution 651  
 grapes, Chile 8776  
 monitoring, traps 1539  
 morphology 1535  
 ornamental woody plants, Switzerland 12030  
 parasitoids 2115  
 pears, Washington 6652  
 pome fruits, Italy 7808  
 predators 1095
- Quadraspidiotus pyri***  
 biology 1535  
 morphology 1535  
 pome fruits, Switzerland 1535
- Quadralcalcarifera punctatella***  
 biology 743  
 behaviour 7231, 11989  
 environmental factors 7231  
 ecology, population dynamics 4700, 10944  
*Fagus* 743, 7231  
 Honshu 5647  
*Fagus crenata*  
 Honshu 4700, 11989  
 Japan 10944  
 Honshu 9478
- Quadralcalcarifera punctatella* cont.**  
 Japan 7231  
 monitoring 4700  
 traps 11989  
 pathogens 9478  
 population density, estimation 5647  
 predators 10944
- Quails**, insecticides, effects 2288
- Qualea albiflora*, *Coptotermes*, Amazonia** 5628
- Quality controls**, *Ceratitis capitata* 1295
- Quarantine**  
*Agrilus mali*, Russia 11859  
*Bactrocera dorsalis*, Hawaii 9904  
*Ceratitis capitata*, Poland 1301  
 control, *Anastrepha suspensa* 1777  
 insect pests, Chile 6292  
 legislation, Europe 6906  
 stored products pests 6866  
*Unaspis yanonensis*, *Citrus* 11902
- Quasimellana***, taxonomy, new genus 4869
- Quercanus***, taxonomy, new genus 1815
- Quercanus leuteogaster***, taxonomy, new species 1815
- Quercanus viridigaster***, taxonomy, new species 1815
- Quercetin**  
 effects  
 insect pests 4792  
*Manduca sexta* 5858
- Quercus***  
 Acari  
 galls 10950  
 Uttar Pradesh 10950
- Altica quercetorum***  
 damage 5646  
 Spain 5646
- Anisota senatoria***, Virginia 7916
- Antheraea yamamai***, Heilongjiang 8245
- Archips argyropilis***, USA 11982
- arthropods**, Belgium 11988
- Callirhytis***, Florida 3640
- Coleoptera**, UK 729, 774
- Curculio* 3**  
 forests  
*Coccinella septempunctata*, Hungary 9323  
*Trichogramma dendrolimi*, Hunan 9969  
*Trichogramma telengai*, Ukraine 1653
- habitats**  
 Chrysopidae, Spain 4674  
 parasitoids, New Mexico 4737  
 insecticides, residues 10941  
 insects, Kalimantan 728  
*Kampimodromus ericinus*, Italy 8058
- Lepidoptera**  
 Hunan 9969  
 Virginia 11986
- Lonchodes harmani***, Brunei Darussalam 2847
- Lymantria dispar***  
 damage 5642, 6755  
 Maryland 2666  
 Pennsylvania 6755  
 Sardinia 5645  
 USA 4697-4698  
 West Virginia 5642
- Macrodiplosis* 5653**  
 galls 3635  
 Irish Republic 3635
- Operophtera brumata***, Belgium 4696
- Osmia tricornis***  
 pollination 5148  
 Spain 5148
- Symmerista***, USA 1151
- Tortrix viridana***, Ukraine 1653
- Typhlodromus rodopiensis***, Greece 5643
- Xyleborus***, California 5644
- Quercus acutissima***  
*Anisota senatoria*, varietal susceptibility 7916  
*Anomala cuprea* 7480  
*Antheraea yamamai*, China 9453  
*Cyclophragma yamadai*, Japan 7914  
 habitats, *Megastigmus habui*, Honshu 11306  
 Lepidoptera, Honshu 11306  
*Tischeria*, Japan 6757  
*Trichagalma serrata*  
 galls 11306
- Quercus acutissima* cont.**  
*Trichagalma serrata* cont.  
 Honshu 11306
- Quercus alba***  
*Anisota senatoria*, varietal susceptibility 7916  
 habitats, *Closterocerus trifasciatus*, Virginia 11353  
 insect pests  
 control, chemical control 8869  
 damage, models 1651  
 Missouri 8869  
 insecticides, residues 10941  
*Lymantria dispar*  
 Michigan 732-733, 6746  
 Ontario 365  
*Phyllonorycter hamadryadella*, Virginia 11353
- Quercus aliena***, habitats, *Chilocorus rubidus*, Honshu 10939
- Quercus bicolor***  
*Anisota senatoria*, varietal susceptibility 7916  
*Disholcaspis quercusmamma*  
 Colorado 8874  
 resistance 8874
- Quercus canariensis***  
 Cynipinae  
 galls 7918  
 UK 7918
- Quercus castaneifolia***  
 Cynipidae  
 galls 10937  
 UK 10937
- Quercus cerris*, *Andricus quercuscalicis***, Europe 1666
- Quercus coccifera***  
 insect pests, Greece 3128  
 litter, arthropods, Greece 3641
- Quercus coccinea*, *Anisota senatoria***, varietal susceptibility 7916
- Quercus crispula***  
 Lepidoptera, Hokkaido 6029  
*Neurotoma harai*, Hokkaido 6758  
*Tetranychus quercivorus*, Japan 10938
- Quercus dentata***  
*Neothoracaphis yanonis*, Jiangsu 3653  
*Tischeria*, Japan 6757
- Quercus devia***, Lepidoptera, Mexico 8849
- Quercus dumosa*, *Andricus californicus***, California 1667
- Quercus ellipsoidalis***  
 arthropods, Minnesota 1670  
*Lymantria dispar*, Michigan 733
- Quercus emoryi***  
*Cameraria*  
 Arizona 1664  
 damage 1664
- Quercus engelmannii*, *Andricus californicus***, California 1667
- Quercus fabri***  
*Antheraea yamamai*, China 9453  
*Neothoracaphis yanonis*, Jiangsu 3653
- Quercus falcata*, *Anisota senatoria***, varietal susceptibility 7916
- Quercus frainetto***  
 insect pests  
 damage 7917  
 Romania 7917
- Quercus glandulifera*, *Neothoracaphis yanonis***, Jiangsu 3653
- Quercus glauca*, *Nasutitermes anjienensis***, Zhejiang 11134
- Quercus grisea* × *Quercus gambelii***, *Phyllonorycter*, New Mexico 4737
- Quercus ilex***  
 forests, Diplopoda, France 10943  
*Hoplocallix pictus*, Israel 5398  
*Kampimodromus ericinus*, Italy 8058  
*Psylliodes ruficolor*, Mediterranean region 742
- Quercus infectoria*, *Trioza remota***, Turkey 1148
- Quercus laurifolia*, *Callirhytis***, Florida 3640
- Quercus leucotrichophora***, insecticides, effects 2665
- Quercus lyrata***  
 habitats, *Closterocerus trifasciatus*, Virginia 11353  
*Phyllonorycter hamadryadella*, Virginia 11353



**Quercus macranthera**  
Cynipinae  
galls 7918  
UK 7918

**Quercus macrocarpa**  
*Anisota senatoria*, varietal susceptibility 7916  
arthropods, Minnesota 1670  
*Disholcaspis quercusmamma*  
Colorado 8874  
resistance 8874  
wood, Chrysomelidae, Kansas 1669

**Quercus mongolica**  
Cynipidae  
galls 10937  
UK 10937  
*Tischeria*, Japan 6757  
wood, Lucanidae 5632

**Quercus mongolica** var. *grosseserrata* (see *Q. crispula*)

**Quercus myrsinaefolia**, *Sesia molybdiceps*, Honshu 5633

**Quercus nigra**  
*Anisota senatoria*, varietal susceptibility 7916  
Callirhytis, Florida 3640

**Quercus palustris**, *Anisota senatoria*, varietal susceptibility 7916

**Quercus pedunculiflora**  
insect pests  
damage 7917  
Romania 7917

**Quercus petraea**  
*Agrilus pannonicus*  
damage 8872  
Germany 8872  
insect pests  
damage 7917  
Romania 7917

**Quercus phellos**, *Anisota senatoria*, varietal susceptibility 7916

**Quercus prinus**  
*Anisota senatoria*, varietal susceptibility 7916  
insecticides, residues 10941  
*Lymantria dispar* 1668, 6747, 8865

**Quercus pubescens**  
Cynipidae  
galls 10937  
UK 10937

**Quercus pyrenaica**, *Tortrix viridana*, Spain 10940

**Quercus robur**  
Acari, Victoria 1639  
*Agrilus pannonicus*  
damage 8872  
Germany 8872  
arthropod pests, Croatia 7915  
Coleoptera, Netherlands 8875  
*Contarinia quercina*  
galls 5809  
Germany 5809

**Curculio**  
Croatia 8873  
damage 8873  
Cynipinae  
galls 7918  
UK 7918  
Geometridae, France 2664  
insect pests  
damage 7917  
Romania 7917  
Lepidoptera, Finland 2657  
*Tortrix viridana*  
damage 1665  
Poland 1665  
wood, Coleoptera, Germany 1642

**Quercus rotundifolia**, forests, Collembola, Portugal 6756

**Quercus rubra**  
extracts, effects, *Lymantria dispar* 736  
habitats, *Compsilura concinnata*, Massachusetts 10942  
insecticides, residues 7907  
*Lymantria dispar* 1668, 6747, 8865  
damage 1671  
Massachusetts 10942  
Michigan 732, 6746  
Ontario 365  
resistance 736

**Quercus rubra borealis**, *Anisota senatoria*, varietal susceptibility 7916

**Quercus salicocina**, *Deporaus insularis*, Japan 8084

**Quercus serrata**, *Tischeria*, Japan 6757

**Quercus suber**, *Platypus cylindrus*, Spain 6992

**Quercus tuberculata**, Lepidoptera, Mexico 8849

**Quercus variabilis**, *Tischeria*, Japan 6757

**Quercus virginiana**, pollen, *Euseius mesembrius* 3220

**Quercus wislizenii**, Curculionidae, California 3638

**Quercusia**  
Europe 5648  
taxonomy 5648

**Quesada gigas**  
biology, behaviour 8268  
Panama 8268  
songs 8268

**Quinalphos**  
control  
*Anomala dimidiata*, soybeans 4471  
*Antigastra catalaunalis*, sesame 7874, 11942  
Aphididae, sarson 3587  
*Aproaerema modicella*, groundnuts 3585  
arthropod pests  
jute 5619  
root crops 4483  
*Bactrocera cucurbitae*, cucurbit vegetables 6618  
*Ceroplastes ceriferus*, tea 3599  
*Chilo infuscatellus*, sugarcane 11948  
*Diaphorina citri*, oranges 8783  
*Epilachna vigintioctopunctata*, potatoes 5476  
*Helicoverpa armigera*, pigeon peas 7743  
*Helopeltis antonii*, cashews 5569  
*Holotrichia*, potatoes 11792  
insect pests  
cotton 7896  
peas 1480  
pigeon peas 593  
rice 6480  
sorghum 7689  
Lepidoptera  
cotton 1634  
sapidillas 5563  
*Lipaphis erysimi*  
rape 1592, 9910  
toria 9796  
*Melanagromyza sojae*, soybeans 9749  
*Metcalfa pruinosa*, fruits 11854  
*Mimastra cyanura* 7175  
*Mythimna separata*  
rice 2467  
wheat 5408  
*Nephotettix virescens*, rice 11746  
*Pseudaulacaspis pentagona*, fruits 11844  
*Sciothrips cardamomi*, cardamoms 7988  
*Scirpophaga incertulas*, rice 7491  
*Uroleucon carthami*, safflower 3580  
*Zeuzera pyrina*, olives 1604  
degradation 11824  
cyanobacteria 2309  
soil 10646  
effects  
*Anabaena torulosa* 3349  
*Ariophanta bajadera* 6837  
*Bemisia tabaci* 5297  
*Caliothrips indicus* 11941  
fowls 5306  
*Oreochromis mossambicus* 11620  
plant parasitic nematodes 9749  
potatoes 599  
rats 2295  
soil 5360  
mixtures  
control  
cardamoms, *Sciothrips cardamomi* 7988  
insect pests, rice 9722  
*Pectinophora gossypiella*, cotton 3622

**Quinalphos** cont.  
mixtures cont.  
effects, cotton 8839  
nontarget effects, predatory arthropods 9722  
nontarget effects  
*Bellamyia dissimilis* 5321  
soil flora 489  
persistence, tomatoes 11824  
residues  
groundwater 10652  
pigeon peas 593  
rivers 10652  
soil 6480  
resistance  
*Helicoverpa armigera* 1327, 10557  
Lepidoptera 6339  
toxicity  
*Apis cerana* 3348  
*Cnaphalocrocis medinalis* 11586  
*Cylas formicarius* 11601  
*Frankliniella occidentalis* 11581  
Noctuidae 8684  
*Spodoptera litura* 9908

**Quinazolines**  
pesticidal properties 5280  
structure 5280

**Quinces** (*Cydonia oblonga*)  
*Cydia molesta* 7801

**Quinclorac**, interactions, insecticides 10532

**Quinomethionate** (see Chinomethionat)

**Quiscalus mexicanus**, insecticides, residues 11614

**Quiscalus quiscula**, pesticides, consumption 11645

**R-20458**, effects, *Spodoptera litura* 10535

**Rabbits**  
entomopathogens, effects 8555  
insecticides  
effects 10585, 11643  
exposure, evaluation 11622  
pesticides, effects 3385

**Rabdophaga**  
*Salix exigua*  
damage 7922  
Utah 7922  
taxonomy 910

**Rabdophaga rigidae** (see *Dasineura rigidae*)

**Rabdophaga salicibrassicoides**  
*Salix*  
galls 5650  
New York 5650  
resistance 5650

**Rabdophaga schreiteri**, taxonomy, to *Dasineura* 8880

**Rachiplusia nu**  
parasitoids 3361  
pathogens 4143  
predators 6200, 7732  
soybeans 7732

**Radiation**  
effects  
*Ostrinia furnacalis* 1964  
*Sitophilus granarius* 9263

**Radishes** (*Raphanus sativus*)  
Aphididae, India 6569  
Carabidae  
damage 6570, 8720, 10793  
Hokkaido 6570, 8720  
commodities, pesticides, residues 12085  
*Eriophyes*  
damage 1543  
galls 1543  
India 1543  
fields, Carabidae, Honshu 7349  
insecticides, residues 10813  
*Lipaphis erysimi*, Indian Punjab 5485  
*Nezara viridula*, South Carolina 4107  
*Plutella xylostella*  
China 3420  
Pakistan 6586

**Radlkoferella macrocarpa**, *Coptotermes*, Amazonia 5628

**Ragala spuria**, *Coptotermes*, Amazonia 5628

**Ragoletis copersella** (see *Ragoletis lycopersella*)

**Rain**  
acaricides, effects 3332  
chlorinated hydrocarbons, residues 5363  
effects, insecticides 8753  
insecticides, residues 2047, 2368



**Rain cont.**

pesticides, residues 10661, 10664

**Rain forests**

Coleoptera, Malaysia 7906  
Lepidoptera, Costa Rica 8852  
*Pheidole*, Costa Rica 5137

**Rainbow trout**

insecticides  
effects 5337, 8545, 8554  
residues 7616

**Raisins, *Plodia interpunctella* 10059****Rajasthan, *Eremitermes paradoxalis* 11465****Ramburiella hispanica, Algeria 9362****Rambutans**

books 9037  
Diaspididae, yield losses 1576  
pests 9037

**Ramphastos dicolorus, Curculionidae, interactions 11291****Ramphastos vitellinus, Curculionidae, interactions 11291****Rana, insecticides, effects 11626****Rana catesbeiana, insecticides, effects 10615****Rana clamitans, insecticides, effects 10615****Rana hexadactyla, insecticides, effects 5314****Rana limnocharis, pesticides, toxicity 2308****Rana perezi, insecticides, effects 7587, 10622****Rana pipiens, insecticides, effects 10615****Rana sylvatica, insecticides, effects 10615****Rana temporaria, insecticides, toxicity 7562****Rana tigrina, prey, *Laevicaulis alte* 5199****Rangelands**

Acrididae  
Montana 4451  
Western States of USA 11753  
arthropods, Wyoming 5446  
insect pests, Wyoming 5448  
Isoptera, damage 7368  
*Melanoplus*, Montana 6517

**Ranunculus**

*Osmia tricornis*  
pollination 5148  
Spain 5148  
*Thrips fallaciosus* 919

**Ranunculus acris**

Diptera  
Norway 5705  
pollination 5705  
Gastropoda, UK 11009

**Rape (*Brassica napus* var. *oleifera*)**

Acari  
damage 11704  
varietal reactions 11704

**Aphididae**

economic thresholds 9911  
Shaanxi 9911  
arthropod pests  
control, chemical control 2400  
Victoria 11757

**Baris coerulescens, France 10896****Brevicoryne brassicae 9914****Ceutorhynchus**

Poland 3576  
resistance 3576

**Ceutorhynchus assimilis**

damage 11922  
Tennessee 4617  
USA 11922

**Ceutorhynchus sulcicollis**

damage 3574  
Sweden 3574

**Coleoptera, Czech Republic 5570****Collembola, New Zealand 6578****commodities, pesticides, residues 12085****Curculionidae 9913****Dasineura brassicae, Denmark 2592, 3573****Eurydema rugosum 232****Euxoa auxiliaris, Alberta 11923**

extracts, attractants, *Sitophilus zeamais* 10054

**fields**

*Copidosoma bakeri*, Alberta 11923  
insects, Sweden 8801  
*Platygaster oebalus*, Denmark 2592

**insect pests**

Georgia 4618  
Germany 2130  
Poland 3575, 3577, 10898

**Rape cont.****insect pests cont.**

resistance 3575, 3577  
Sweden 1300  
yield losses 4618, 10898  
integrated pest management, Europe 4616

**Lipaphis erysimi**

damage 1592  
Delhi 1592, 9910  
Haryana 1590

**Meligethes, Himachal Pradesh 2590****India 5572****Indian Punjab 8728****resistance 2590, 8728****Mamestra configurata 7772****Meligethes, Sweden 8801****pest control, Poland 2591****Phyllotreta**

Canada 4619  
resistance 4619

**Phyllotreta cruciferae 10897**

induced resistance 8802  
Manitoba 4390

North Dakota 1591  
resistance 4390

**Plutella xylostella 8724****Rapeseed oil, control, *Sitophilus granarius*, wheat, commodities 6896****Raphanus, Syrphidae, Switzerland 2759****Raphanus raphanistrum, beneficial insects, Australia 8010****Raphanus sativus (see Radishes)****Raphia hookeri, Cerataphis variabilis, Nigeria 6841****Raphia vinifera, Cerataphis variabilis, Nigeria 6841****Raphimetopus ablutellus, sugarcane, Uttar Pradesh 5586****Raspberries (*Rubus idaeus* and *R. strigosus*)****Ametastegia glabrata, Victoria 9853****Amphorophora idaei**

resistance 7827  
UK 7827

**arthropod pests, Switzerland 11866****Byrrhidae, Quebec 6662****Cantharis obscura**

damage 4569  
UK 4569

**Choristoneura rosaceana 9854****Curculionidae, Quebec 4571****fields**

Carabidae, Quebec 5533  
*Phytoseiulus persimilis*, British Columbia 9852

**insect pests**

certification 10860  
control, biological control 3542  
Washington 3542

**integrated pest management, reviews 3542****Lonchodes harmani, Brunei Darussalam 2847****pest control, Washington 1550, 4570****Tetranychus urticae, British Columbia 9852****Rastrococcus iceryoides****mangoes**

Malawi 6688  
West Bengal 5558

**Rastrococcus invadens****biology**

behaviour 1562  
reproduction 11904  
control, biological control 10884

**mangoes**

Benin 10884, 11904  
resistance 11904

Togo 1562  
parasitoids 5164, 10884

**Rats****acaricides, metabolism 4325****entomopathogens, effects 8555****insecticides**

effects 464, 1349, 1373, 2278, 2287, 2295, 2331, 2340, 3278, 3350, 3359, 3365-3366, 4301, 4316, 4797, 5339, 6360, 6364-6365, 8518, 8526, 8534, 8539, 10592, 11606, 11629, 11632

**Rats cont.****insecticides cont.**

metabolism 5333, 5748, 6352, 6359, 7557, 7582  
toxicity 450, 2310, 2500, 3364, 8536, 10569, 10573, 10619  
organophosphorus compounds, toxicity 10578

pesticides, effects 496, 3347, 4309, 4315, 7590, 8556, 10579

plant extracts, effects 1729

**Rattus exulans, Deilagaon chrysolepidis, interactions 3047****Rattus hoffmanni, Deilagaon chrysolepidis, interactions 3047****Rauvolfia serpentina, extracts, effects, Rhyzopertha dominica 1769****Ravenia rivularis, Metamasius hemipterus sericeus, Florida 2239****Rearing techniques**

*Aganaspis pelleranoi* 6201  
*Agrotis biconica* 4635  
*Agrotis ipsilon* 4056  
*Aphis spiraeicola* 7313  
*Atta sexdens* 4077  
*Bembidion tetracolum* 5166  
*Bombyx mori* 343-344, 4054-4055, 6213, 6216, 7374, 10395  
*Bracon kirkpatricki* 5116  
*Brontocoris tabidus* 7159  
*Busseola fusca* 6423  
*Catolaccus grandis* 322  
*Ceratitis capitata* 1169, 9155  
*Chrysoperla carnea* 267  
*Chrysoperla rufilabris* 3133, 4113  
*Chrysopidae* 10350  
*Cnephia jactatana* 1068  
*Copidosoma koehleri* 5260  
*Cydia molesta* 9378  
*Diabrotica speciosa* 8332  
*Diabrotica virgifera* 6107  
*Dioryctria abietivorella* 9406  
*Ectropis obliqua* 8421  
*Eldana saccharina* 8818  
*Encarsia formosa* 7996  
endangered species 1953-1955  
*Eriopsis connexa* 7366  
*Eumenidae* 8900  
*Euseius mesembrinus* 3220  
*Exorista bombycis* 5179, 10340  
*Exorista larvarum* 7309, 11401  
*Formicidae* 11387  
*Gastropoda* 9458  
*Harmonia axyridis* 209  
*Hylesinus varius* 2596  
*Hymenoptera* 2078  
*Hypothenemus hampei* 8337  
insects 6022  
Lepidoptera, effects, man 9401  
*Leptoglossus zonatus* 9377  
*Leptomastix dactylopii* 10141  
*Linyphiidae* 7571  
*Liriomyza sativae* 6019  
*Lyctocoris campestris* 6168  
*Lymantria dispar* 8339  
*Mallada basalis* 6114, 8374  
*Maruca vitrata* 8336, 9407  
*Microtonus hyperodae* 2217  
*Myzus cerasi* 5108  
natural enemies, reviews 299  
*Onthophagus gazella* 7316  
*Orius* 11541  
*Orius insidiosus* 321  
*Otiorynchus sulcatus* 1179  
*Paraponyx stagnalis* 4443  
*Pectinophora gossypiella* 8344  
*Pemphigus betae* 8331  
*Phasmarhabditis hermaphrodita* 351  
*Phtherochroa cranaodes* 4076  
*Phyllonorycter blancardella* 271  
*Phytoseiidae* 2513, 4121  
*Podisus connexivus* 1181, 1205  
*Popillia japonica* 4066  
*Pterostichus cupreus* 4057  
*Ptinus tectus* 6121  
*Rhizoglyphus robini* 5751  
*Rhynchophorus cruentatus* 11391  
*Rhyzopertha dominica* 3799  
*Serangium parcesetosum* 1230  
*Sitona hispidulus* 10337  
*Solenopsis invicta* 11388



Rearing techniques cont.

Tachinidae 314  
*Tamarixia radiata* 10336  
*Tenebrio molitor* 7373  
*Tetranychus urticae* 1178  
*Tribolium castaneum* 6116  
*Trichogramma* 10790, 11404  
*Trichogramma bournieri* 8646  
*Trichogramma dendrolimi* 9432  
*Trichogramma minutum* 1215, 7363, 8280  
*Trichopoda pennipes* 11390  
*Trissolcus basalisi* 7304  
*Zophodia prodentialis* 1758  
*Zulia enterriana* 1170

*Recilia dorsalis*

control, chemical control 7713  
ecology, population dynamics 7713  
rice, Philippines 572, 7713

*Recurvaria leucatella*

attractants 1530  
fruits, Hungary 1530  
monitoring, traps 1530

*Recurvaria nanella*

attractants 1530  
fruits, Hungary 1530  
monitoring, traps 1530

Red beet (see Beetroots)

Red clover (see *Trifolium pratense*)

Red currants (*Ribes rubrum*)

arthropod pests, certification 10862  
*Cecidophyopsis* 5534  
*Cryptomyzus* 3942, 5535-5536  
*Cryptomyzus galeopsidis*, Netherlands 1555  
*Synanthedon tipuliformis*, Germany 1556

Red gram (see Pigeon peas)

Red pine (see *Pinus resinosa*)

Reduviidae

*Ailanthus*, forests, India 2673  
morphology 8106  
prey, *Atteva fabriciella* 2673

*Reesa vespulae*, stored products, China

11037

Regulations, pesticides 11558

*Relistroides*, synonyms, of *Listronotus* 11124

Reoviridae

hosts  
Cicadellidae 4168  
*Glabromicroplitis croceipes* 5221  
vectors, *Nilaparvata lugens* 3272

*Reovirus*, hosts, Delphacidae 11511

Repelin, control, *Lipaphis erysimi*, toria

9796

Repellents, pest control, reviews 11565

Reports

Australia  
CSIRO Division of Entomology  
Stored Grain Research Laboratory 8029  
Potato Industry Development Project 5761  
Queensland, Land Protection Branch,  
Queensland Department of  
Lands 11062  
South Australia, Department of Pri-  
mary Industries 6907  
Stored Grain Research Laboratory  
855  
Victorian Department of Agriculture  
2805  
Belgium, Provinciaal Onderzoek- en  
Voorlichtingscentrum voor Land- en  
Tuinbouw, Beitem-Roeselare 2789-  
2791  
Canada  
Alberta Special Crops and Horticul-  
tural Research Center 9022  
Environmental Protection Service  
8030  
Ministere des Forets du Quebec 5760  
Saskatchewan, PRFA Shelterbelt Cen-  
tre 9023  
Cyprus, Agricultural Research Institute  
2806  
Denmark, National Committee for Plant  
Production 10060  
Europe, European and Mediterranean  
Plant Protection Organization 6905-  
6906

Reports cont.

Germany, Fachhochschule Weihe-  
stephan und Versuchsanstalt für  
Gartenbau Weihestephan 9020  
Guyana, National Agricultural Research  
Institute 857  
India  
biological control 3716  
Central Plantation Crops Research  
Institute 1782  
Central Research Institute for Jute  
and Allied Fibres 2793  
Central Tuber Crops Research Insti-  
tute 2797  
International Crops Research Institute  
for the Semi-Arid Tropics 858,  
2794-2796  
National Research Centre for Cashew  
9021  
Italy, Food and Agriculture Organization  
6904  
Jamaica, Sugar Industry Research Insti-  
tute 3717  
Malaysia  
Guthrie Research Chemara 856  
Pesticide Action Network Asia and  
the Pacific 3714  
Nepal, Lumle Agricultural Research Cen-  
tre 2807  
Netherlands, Research Station for Fruit  
Growing, Wilhelminadorp 853  
Poland, Plant Protection Institute, Poznan  
University 2804  
South Africa  
Institute for Commercial Forestry  
Research 5621  
South African Sugar Technologists'  
Association 1783  
Sri Lanka, Tea Research Institute 854  
Taiwan  
Food and Fertilizer Technology  
Center for the Asian and Pacific  
Region 861  
Taiwan Agricultural Research Insti-  
tute 2808  
UK  
AFRC Institute of Plant Science  
Research 2803  
British Agrochemicals Association  
862  
Institute of Terrestrial Ecology 3715  
International Institute of Biological  
Control 1784  
Scottish Crop Research Institute 2792  
Working Party on Pesticide Residues  
5762  
USA  
Arkansas Agricultural Experiment  
Station 2798, 6903  
Boyce Thompson Institute for Plant  
Research 2802  
College of Agriculture and Life Sci-  
ences 9024  
Hawaiian Sugar Planters' Association  
2800  
Louisiana Agricultural Experiment  
Station 2799, 2801  
Louisiana Agricultural Research Sta-  
tion 859  
Louisiana State University Agricul-  
tural Center 860  
State Horticultural Association of  
Pennsylvania 11054  
Reptiles  
prey  
*Nisaga simplex* 11745  
*Pheidole pallidula* 292  
Republic of Georgia  
*Chorthippus* 5123  
integrated pest management 6915  
*Phorbia* 5788  
*Requena verticalis*  
biology  
behaviour 3962  
reproduction 8114  
Research institutes, entomology 5759  
Residential areas, pesticides, residues, mon-  
itoring 255  
Resmethrin  
synergists 11651  
toxicity, fishes 11651

Resurgence, arthropod pests, reviews 7576

*Reticulitermes chinensis*

biology, reproduction 9451  
ecology, population dynamics 9451

*Reticulitermes flavipes*

biochemistry  
endocrine system 5188  
enzymes 9165  
biological control agents, evaluation  
11503  
biology, environmental factors 4126  
control, chemical control 6867, 7492  
Florida 6968, 10134  
insecticides, effects 9165  
morphology 10134  
Ontario 11503  
*Populus*, wood 6867  
taxonomy 6968

*Reticulitermes hageni*

Florida 6968, 10134  
morphology 10134  
taxonomy 6968

*Reticulitermes hesperus*

biology 5184  
environmental factors 5185  
California 5185  
control 5184  
Washington 5184

*Reticulitermes lucifugus grassei*

ecology, interspecific competition 3178  
France 3178  
morphology, mouthparts 3178

*Reticulitermes santoniensis*

biology, behaviour 766  
ecology, interspecific competition 3178  
France 3178  
morphology, mouthparts 3178  
pheromones 766  
*Pinus*, France 766

*Reticulitermes spelatus kyushuensis* (see *R. speratus kyushensis*)

*Reticulitermes speratus*

physiology, pheromones 2140  
plant extracts, effects 804

*Reticulitermes speratus kyushuensis*

ectoparasites 11116  
Japan 11116

*Reticulitermes tibialis*

*Pogonomyrmex occidentalis*, interactions  
8395  
USA 8395

*Reticulitermes virginicus*

Florida 6968, 10134  
morphology 10134  
taxonomy 6968

Retinoic acid, effects, Gastropoda 954

Reunion

*Aphidius colemani* 8366  
*Auchenorrhyncha* 10308  
*Ceratitis capitata* 5374, 6010  
*Hanseniella unguiculata* 6228  
Lepidoptera, natural enemies 8435  
*Leucaena*, *Heteropsylla cubana* 10951  
Nymphalidae 9375  
Poaceae, Delphacidae 692  
*Polistes olivaceus* 8435, 10291

Reviews

acaricides, development 433  
*Anastrepha* 5029  
antifeedants 8612  
apples  
integrated pest management  
Europe 5521  
North America 6641  
Araneae, feeding behaviour 6161  
arthropod pests  
control 10462  
plants, interactions 5270  
resurgence 7576  
arthropods  
climate, Australia 2002  
genetics, transposable elements 7129  
mimicry 7200  
taxonomy, phylogeny 2860  
asparagus, insect pests, South Africa  
5502  
*Aspergillus*, Southern Africa 10454  
*Azadirachta indica*, insecticidal properties  
8481  
*Bacillus thuringiensis*, control, insect  
pests 385



## Reviews cont.

- Beauveria bassiana* 6221  
*Bemisia tabaci* 11707-11708  
 predators 4091  
 tomato yellow leaf curl  
 bigeminivirus, transmission 10825  
 bioassays, insects 5121  
 biological control 2214  
 arthropods 1278, 4212, 6267  
 history 6268  
 Maryland 6273  
*Operophtera brumata* 9525  
 weeds 2763  
 biological control agents, genetic engineering 6274  
 cell culture 8329  
*Cosmopolites sordidus*, control 4583  
 cotton  
 insect pests, Brazil 1629  
 integrated pest management 5603-5604  
 Australia 5605  
 Brazil 5606  
 USSR 5607  
 deltamethrin, environmental impact 2253  
 Diplopoda, development 1875  
*Drosophila*  
 molecular genetics, evolution 8224  
 reproduction 1900  
*Drosophila melanogaster*  
 behaviour 3983  
 physiology, senses 4958  
 entomophilic nematodes, control, insect pests 1262, 3289  
 environment, pesticides, effects 10662  
 Ephrydidae, biology 7154  
 essential oils, control, insect pests 6296  
 Formicidae, ecology 294  
*Galleria mellonella*, moulting hormones 2938  
 grain legumes, insect pests, South Africa 9757  
 grasslands, pests 5444, 5701  
 Hexapoda, morphology 8103  
 host parasite relationships, immunology 7331  
 Hymenoptera, ecology, reproduction 952  
*Hypothenemus hampei*, control 3600  
 insect pests, *Acremonium*, interactions 5267  
 insect viruses, genetic engineering 9491  
 insecticide resistance 4257, 5288, 9566, 9591  
 insecticides, degradation 1311  
 insects  
 behaviour 10247  
 biochemistry, neurotransmitters 9189  
 conservation 3917  
 ecology 5018  
 endocrine system 133  
 enzymes 7044  
 evolution, phylogeny 6940  
 evolutionary ecology 7153  
 feeding 9281  
 forest trees, interactions 5627  
 hormones, analysis 3153  
 immunity 10406  
 migration 6063  
 neurohormones 4931  
 periodicity 7172  
 pheromones, synthesis 10338  
 phylogeny 6941  
 physiology  
 fat body 7097  
 Malpighian tubules 7070  
 plant extracts, effects 10245  
 songs 3981  
 viruses, transmission 10458  
 insects as food 10392  
 integrated pest management 8461  
 orchards 399  
 pest resistance 3300  
 Isoptera  
 metabolism 1234  
 Zimbabwe 1232  
 juvenile hormones, mode of action 7052  
 Lepidoptera  
 behaviour 5050  
 pheromones 2388, 7056

## Reviews cont.

- Liposcelis bostrychophilus*  
 biology 8020  
 ecology 8020  
*Liriomyza huidobrensis*  
 biology 8621  
 control 8621  
 man, pesticides, effects 10571  
*Manduca sexta*, biochemistry, metabolism 8166  
 marine environment, organochlorine compounds, residues 3381  
 Membracidae 7002  
 methiocarb, nontarget effects 448  
 methyl bromide, usage 5282  
 microbial pesticides 5277  
 mites, Turkey 2082  
 moulting hormones, biosynthesis 8600  
 natural enemies 6190  
*Nilaparvata lugens*, biology, migration 3068  
 orchards, pest control 643, 668  
 ornamental plants, pest control 784  
*Orobanchae*  
 biological control 8009  
 Egypt 8008  
 India, reviews 8007  
 parasitoids, diets 2139  
 pest control 6063  
 microbial pesticides 10468  
 pest resistance 2234  
 pesticides  
 degradation, microorganisms 4233  
 development 6348  
 environmental impact 6384  
 food contamination 2361  
*Phthorimaea operculella*, food plants 4487  
*Phyllocnistis citrella*, integrated pest management, China 4584  
*Phytoseiulus persimilis*, biology 11841  
 plant extracts  
 pest control 11565  
 pesticidal properties 5276  
 plants  
 insects, damage 7504  
 pest resistance 10482  
 predatory arthropods, interactions 4370  
*Plutella xylostella* 7498  
 pyrethroid insecticides 10522  
 mode of action 7522  
*Pyrilla perpusilla*, sugarcane 5583  
 raspberries, integrated pest management 3542  
 rearing techniques, natural enemies 299  
 rice, integrated pest management 1455, 3451  
 Scarabaeidae  
 integrated pest management 1408  
 sugarcane, Australia 11950  
 social insects, parasites 11355  
 soil, pesticides, nontarget effects 10657  
 soil arthropods 1970  
 soil enzymes, pesticides, effects 9639  
 stored products pests 837  
 pheromones 11191  
 Tephritidae  
 chemosterilants, effects 177  
 control 10460  
 tree fruits, integrated pest management 6629  
 tropical crops, insect pests, trap crops 9532  
 viral insecticides 11545  
 RH-2485, control, *Phyllocnistis citrella*, *Citrus* 11897  
 RH-5992 (see Tebufenozide)  
 toxicity, *Spodoptera exigua* 2276  
*Rhabdionvirus oryctes*, control, *Oryctes rhinoceros*, coconuts 1599  
*Rhabditidae*, hosts, Scarabaeidae 10441  
*Rhabdotalebra*, *Tabebuia ochracea*, Minas Gerais 3647  
*Rhachiberothidae*, taxonomy 916  
*Rhaconotus*, control, *Cylas formicarius*, sweet potatoes 4483  
*Rhaconotus carinatus*  
 hosts, *Maliarpha separattella* 1212  
 rice, habitats, Africa 1212  
 taxonomy, new species 1212

- Rhaconotus scirpophagae*, sugarcane, habitats, Bihar 6718  
*Rhadinaphelenchus cocophilus*, vectors, *Rhynchophorus palmarum* 2594  
 Rhagionidae, taxonomy, collections 1835  
*Rhagium inquisitor*  
 biology, behaviour 2390  
*Pinus sylvestris*, Sweden 2390  
*Rhagoletis*  
 biochemistry, enzymes 9857  
 genetics, gene frequency 9857  
*Vaccinium arboreum* 9857  
*Rhagoletis alternata*  
 ecology 10986  
*Rosa* 10986  
*Rhagoletis boycei*  
 biology, behaviour 11915  
*Juglans major* 11915  
*Rhagoletis cerasi*  
 biology, behaviour 7080  
 pheromones 7080  
 physiology, receptors 7080  
*Rhagoletis completa*  
 biology  
 behaviour 4607  
 environmental factors 6070  
 genetics, chromosomes 2965  
 walnuts, California 4607  
*Rhagoletis conversa*, morphology 10125  
*Rhagoletis fausta*, genetics, chromosomes 2965  
*Rhagoletis indifferens*, genetics, chromosomes 2965  
*Rhagoletis juglandis*  
 biology, behaviour 11915  
*Juglans major* 11915  
*Rhagoletis lycopersella*, monitoring, traps 5549  
*Rhagoletis mendax*  
 biochemistry, enzymes 9857  
 genetics  
 gene frequency 9857  
 population genetics 7148  
 monitoring, traps 9856  
 North America 7148  
*Vaccinium* 9857  
*Vaccinium angustifolium*, Canada 9856  
*Rhagoletis nova*, morphology 10125  
*Rhagoletis pomonella*  
 apples, Massachusetts 516, 6636, 9832, 9841  
 biology, behaviour 516, 4556, 6636, 7817, 9841  
 control, chemical control 9832, 9841  
*Crataegus*, Washington 2746  
*Crataegus mollis*, Massachusetts 5655  
 ecology, biological competition 7813  
 erythrosin B, toxicity 1302  
 fruits, Massachusetts 4556  
 genetics, population genetics 7148  
 insecticides, toxicity 9569  
 monitoring, traps 516, 5549  
 North America 7148  
 parasitoids 2746  
 plant extracts, effects 5655  
 Rosaceae  
 Massachusetts 7817  
 Michigan 7813  
*Rhagoletis ribicola*, genetics, chromosomes 2965  
*Rhagoletis suavis*, genetics, chromosomes 2965  
*Rhagoletis tabellaria*, genetics, chromosomes 2965  
*Rhagoletis tomatis*  
 monitoring, traps 10818  
 morphology 10125  
 tomatoes, Chile 10818  
*Rhagonycha fulva*  
 habitats, Hungary 7803  
 prey, Aphididae 7663  
 wheat, fields, Germany 7663  
*Rhammatocerus schistocercoides*  
 biology, development 9147  
 Mato Grosso 9147  
*Rhamnus cathartica*  
 Cecidomyiidae  
 Austria 1826  
 galls 1826  
*Trichochermes walkeri*  
 galls 3652



- Rhamnus cathartica** *cont.*  
*Trichochermes walkeri* *cont.*  
 UK 3652
- Rhantus**  
 Australia 1820  
 Indonesia 1820  
 Pacific Islands 1820  
 Philippines 1820  
 taxonomy 1820
- Rhaphiolepis umbellata**, habitats, *Adalia bipunctata*, Honshu 5183
- Rhaphotittha bechuana**  
 Namibia 9288  
 songs 9288
- Rhaphotittha carvalhoi**  
 Namibia 9288  
 songs 9288
- Rhaphotittha levis**  
 Namibia 9288  
 songs 9288
- Rhepoxyinius abronius**, insecticides, effects 3377
- Rhigospidius piercei**  
 distribution, Argentina 3508  
 potatoes, Argentina 3508
- Rhinaphe**, taxonomy 5784
- Rhinocapsus vanduzeei**  
 biology, phenology 1711  
*Rhododendron*, habitats, Georgia 1711
- Rhinocoris marginatus**  
 biology, behaviour 8393  
 prey, *Spodoptera litura* 8393
- Rhinocyllus conicus**  
 Asteraceae, Europe 8005  
 biology 8005  
*Carduus acanthoides*, Argentina 6846  
*Carduus thoermeri* 2764  
*Cirsium arvense*, Utah 4786  
 control, *Carduus acanthoides* 6846  
 distribution, Europe 8005  
 lucerne, New Zealand 6525  
 parasitoids 6525  
 plant pathogens, transmission 2764
- Rhinomaceridae**  
 checklists, Italy 5088  
 distribution, Italy 5088  
 taxonomy 5088
- Rhinonycteris aurantius**, prey, insects 248
- Rhinophoridae**, distribution, Japan 4047
- Rhinotermes malaccensis**  
 control, chemical control 2659  
*Eucalyptus urophylla*, Kalimantan 2659
- Rhinotermes sarawakensis**  
 control, chemical control 12065  
 wood, Zhejiang 12065
- Rhinotermitidae**, forests, Uttar Pradesh 726
- Rhinothrombium**  
 distribution, China 25  
 taxonomy 25
- Rhinothrombium wuxiensis**  
 litter (plant), Jiangsu 25  
 taxonomy, new species 25
- Rhipiceridae**, distribution, Nicaragua 3112
- Rhipidothrips flavus**  
 taxonomy, new species 1147  
 wheat, Turkey 1147
- Rhipiphoridae**, Nicaragua 10317
- Rhizedra lutos**, grasses, North America 5456
- Rhizobium leguminosarum**, *Sitona lepidus*, interactions 4481
- Rhizoctonia solani**  
 control, biological control 9928  
 natural enemies, Hokkaido 9928  
*Proisotoma minuta* 5676
- Rhizocetus**  
*Amorphophallus*, commodities 4483  
 control, chemical control 4483
- Rhizoglyphus robini**  
*Allium chinense* 10798  
 bulbs 5751  
 ecology, population dynamics 10798  
 physiology, secretions 3142  
 rearing techniques 5751
- Rhizoglyphus tobinii**, biology, development 9140
- Rhizopertha dominica** (see *Rhyzopertha dominica*)
- Rhizopertha dominica** (see *Rhyzopertha dominica*)
- Rhizophagus**  
 biology, behaviour 2390  
*Pinus sylvestris*, habitats, Sweden 2390  
 prey, *Tomicus piniperda* 2390  
 taxonomy 3754, 9081
- Rhizophagus bipustulatus**, taxonomy 3754, 9081
- Rhizophagus grandis**  
 control, *Dendroctonus micans*, *Picea* 770  
*Picea*, forests, UK 770
- Rhizophora mangle**  
 insect pests  
 Belize 722  
 damage 722
- Rhizopus**, *Sitophilus zeamais*, interactions 6885
- Rhizopus stolonifer**, vectors, *Ceratitidis capitata* 5738
- Rhodococcus**, pesticides, degradation 4326
- Rhododendron**  
 habitats, Miridae, Georgia 1711  
 insect pests, Georgia 1711  
*Otiorynchus sulcatus*  
 Germany 4574  
 Poland 6812  
*Stephanitis pyrioides*  
 North America 8944  
 North Carolina 4748
- Rhododendron molle**, extracts, effects, *Tribolium confusum* 6328
- Rhododendron ponticum**, *Atta cephalotes* 3955
- Rhopalidae**, Nicaragua 3109
- Rhopalinae**  
 distribution 11142  
 phylogeny 11142
- Rhopalocera**  
 National Parks, India 8251  
 biology 1795  
 environmental factors, books 10073  
 mimicry 3020  
 wings, heat 9330  
 Cameroon 11293  
 China, books 1795  
 conservation 3013, 3913  
 Costa Rica 3913  
 distribution 1795  
 Australia 3096  
 UK 6092, 6101  
 ecology 9338, 10282, 11293  
 habitats 6083, 7238, 7240  
 insect communities 11351  
 population dynamics 6092  
 forest trees  
 pollination 6772  
 Senegal 6772  
 forests, Colombia 7250  
 genetics  
 evolution 3020, 9103  
 gene expression 2955  
 grasslands  
 Germany 3174  
 South Africa 8671  
 India 1144  
 Japan 9338  
 Malaysia 3013  
 monitoring 3913  
 morphology 1795  
 pastures, Norway 7240  
 sampling 5114, 10492  
 South Africa, books 11074  
 Spain 7275, 7277  
 taxonomy 1795  
 UK 7238, 10282, 10492, 11351  
 books 8046
- Rhopalophora**, taxonomy 3771
- Rhopalophora rugicollis hovorei**, taxonomy, new subspecies 3771
- Rhopalophora serripennis**, taxonomy, new species 3771
- Rhopalosiphoninus latysiphon**  
 biology 2538  
 control 2538  
 morphology 2538  
 natural enemies 2538
- Rhopalosiphoninus laytsiphon**, marrows, Italy 2538
- Rhopalosiphum**  
 pastures  
 Western Australia 11756  
 yield losses 11756
- Rhopalosiphum insertum**  
 apples, Japan 9834  
 control 9834  
 ecology, population dynamics 9834
- Rhopalosiphum maidis**  
 barley  
 Haryana 9691  
 resistance 9691  
 biology  
 behaviour 5404, 6436  
 overwintering 1420  
 phenology 2608  
 cereals, Germany 1420  
 control  
 chemical control 554  
 cultural control 5429  
 fertilizers, effects 3441  
 hydroxamic acids, effects 5404  
 lettuces, secretions, effects 9807  
 maize  
 Egypt 3441  
 Pakistan 553-554, 1437, 1444  
 resistance 3441  
 varietal susceptibility 553, 1444  
 parasitoids 3204, 6183  
 plant extracts, antifeedants 6436  
 plant pathogens, transmission 2608, 10725  
 predators 5168  
 sorghum 10725  
 Maharashtra 5429  
 sugarcane, Queensland 2608  
 wheat 5404  
 Italy 2412  
 resistance 6436  
 USA 8633
- Rhopalosiphum nymphaeae**  
 biology, environmental factors 1754  
*Eichhornia crassipes* 1754  
*Pistia stratiotes*, Florida 3694
- Rhopalosiphum padi** 1432  
*Acremonium coenophialum*, interactions 10747  
 apples, Washington 8757  
 barley 1475, 2419, 4410, 6412, 8639  
 Czech Republic 6422  
 Finland 3203  
 France 10699  
 resistance 6453, 9663  
 Sweden 6453  
 varietal susceptibility 1431  
 biochemistry, enzymes 3813  
 biology 2412  
 behaviour 544, 3436, 5404, 6436, 9692, 10704  
 environmental factors 230, 1475, 4410, 6411-6412, 9329  
 life cycle 2894, 7640  
 morphs, identification 5829  
 overwintering 1420  
 reproduction 5036, 7670  
 models 7319
- cereals**  
 Europe 2405  
 Germany 1420  
 Norway 2406  
 Poland 3091  
 Sweden 4396, 5400  
 UK 10687
- control** 2412  
 chemical control 2405, 7656, 10699, 11718
- crops**  
 Spain 11713  
 Sweden 1300
- cucumbers**, greenhouses, Germany 10832
- ecology**  
 distribution 3433  
 population dynamics 3091, 4032, 6437, 7260, 11713  
 Europe 5036  
 farming systems, effects 1428  
 fertilizers, effects 6422  
*Festuca arundinacea* 10747  
 food plants 6411  
 France 7640  
 Ontario 6007  
 France 4032  
 genetics, genetic variation 6007  
 Germany 7260  
 herbicides, effects 9692



***Rhopalosiphum padi* cont.**

- Hordeum spontaneum*, resistance 7674
- hydroxamic acids, effects 5404
- Idaho 10451
- insecticides, effects 3436
- monitoring, traps 7260
- morphology 2412
- natural enemies 542, 10703
- New South Wales 8639
- oats 5400, 9692, 10704
- Norway 1432
- Poland 10703
- parasitoids 4407, 6183, 6437, 8260, 8366, 8639
- pathogens 6437
- plant extracts
  - antifeedants 6436
  - repellents 5400
- plant pathogens, transmission 544, 2405, 2419, 3436, 9692, 10451, 10687, 10699, 10704, 11713
- Poaceae, Chile 9741
- predators 1428, 2406, 3203, 3215, 4396, 6181, 6437, 7657-7658, 9692, 10690, 10701, 11458
- Prunus padus* 5829
- sampling 3433
- wheat 544, 5404, 7670, 9329
  - Germany 1428, 7657
  - Henan 10690
  - Irish Republic 11718
  - Italy 2412
  - resistance 3813, 6436
  - Shandong 3433
  - South Africa 542
  - Syria 6437
  - UK 7656
  - yield losses 10690

***Rhopalosiphum pseudobrassicae* (see*****Lipaphis erysimi*)*****Rhopalosiphum rufiabdominalis***

- biology 2538
- life cycle 9276
- control 2538
- marrows, Italy 2538
- morphology 2538
- natural enemies 2538
- wheat, Indian Punjab 7665

***Rhopalotria bicolor***

cycads

- Mexico 1638
- pollination 1638

***Rhopalotria mollis***

cycads

- Mexico 1638
- pollination 1638

***Zamia furfuracea*, pollination 6742*****Rhopalum***

- biology 4852
- New Zealand 4852
- taxonomy 4852

***Rhopalus tigrinus***

- distribution 11142
- Netherlands 1166
- phylogeny 11142

***Rhopitoides canus***

- insecticides, effects 6522
- lucerne, fields, Czech Republic 6522

***Rhopobota naevana***

- biology, behaviour 9855
- parasitoids 9855
- Vaccinium*, British Columbia 9855

***Rhus chinensis***

- extracts, antifeedants, Lepidoptera 11700
- Schlechtendalia chinensis*, China 10396

***Rhyacionia***

- distribution, Korea Republic 7288
- taxonomy 7288

***Rhyacionia buoliana***

- control, integrated control 1691
- ecology, population dynamics 6791-6792
- Pinus*, Ukraine 6791-6792
- Pinus radiata*, Chile 1691

***Rhyacionia dativa*, distribution, Korea Republic 7288*****Rhyacionia frustrana***

- control, biological control 1690
- ecology, population dynamics, models 4733

- Pinus caribaea*, Cuba 1690
- Pinus taeda*, USA 4733

***Rhyacionia maritima*, taxonomy 3761**

- Rhyacionia miniatana*, taxonomy 3761
- Rhyacionia pinicolana*, distribution, Korea Republic 7288

***Rhyacionia pinivorana*, taxonomy 3761*****Rhyachosia minima*, insects, Delhi 10042*****Rhynchaphytoptus ficifoliae***

- distribution, Chile 9358
- figs, Chile 9358

***Rhynchaeninae*, taxonomy 2849*****Rhynchitidae*, taxonomy, books 4816*****Rhynchitinae*, taxonomy 8084*****Rhyncholacis penicillata***

- extracts
  - insecticidal properties 6827
  - toxicity, Lepidoptera 6827

***Rhynchopacha* (see *Athrips*)*****Rhynchopalpus brunellus***

- distribution, Hawaii 9056
- taxonomy 9056

***Rhynchophoridae*, taxonomy, books 4818*****Rhynchophorum palmarum***

- morphology, reproductive organs 5839
- Venezuela 5839

***Rhynchophorus cruentatus***

- biology 11391
- behaviour 3993
- reproduction 3800

- diets 11391

- Florida 3993, 4362, 4376

- monitoring, traps 3993, 4376

- pheromones 4362, 4376

- plant extracts, attractants 4362

- rearing techniques 11391

***Rhynchophorus ferrugineus***

- coconuts, Tamil Nadu 3582
- monitoring, traps 3582

***Rhynchophorus ferrugineus papuanus***

- insects as food 8882
- Metroxylon sagu*, Papua New Guinea 8882

***Rhynchophorus palmarum***

- Arecaceae, Venezuela 7862
- biology 5574

- behaviour 8254

- diets 8254

- distribution, Venezuela 5574

- monitoring, traps 682

- oil palms

- Colombia 2594

- Costa Rica 682

- monitoring, traps 2594

- Venezuela 5574

- pheromones 682

- plant parasitic nematodes, transmission 7862
- plant pathogens, transmission 2594

***Rhynchophorus phoenicis***

- coconuts, Cote d'Ivoire 9916
- Cote d'Ivoire 4376
- monitoring, traps 4376
- oil palms, Cote d'Ivoire 4622, 7627
- pheromones 4376, 4622, 7627, 9916

***Rhyncomya forcipata***

- mangoes
  - pollination 10872
  - South Africa 10872

***Rhynocoris annulatus***

- Populus*, forests, France 6760
- prey, *Chrysomela tremula* 6760

***Rhyparochrominae***

- taxonomy, new taxa 11128
- West Africa 11128

***Rhysodidae*, morphology, digestive system 4879*****Rhysomatus pilosipes***

- sweet potatoes
  - Argentina 9789
  - damage 9789

***Rhytia cocalus* (see *Eudocima cocalus*)*****Rhytidoponera metallica***

- biology, behaviour 3061
- seeds, interactions 3061

***Rhyzobius fagus***

- Hemisarcophaga coccophagus*, interactions 6695
- New Zealand 6695

***Rhyzobius lophanthae***

- fruits, habitats, Italy 11844
- morphology 11435

***Rhyzobius lophanthae* cont.**

- prey
  - Diaspididae 11435
  - Pseudaucaspis pentagona* 11844
- Rhyzopertha dominica***
  - biology
    - behaviour 1989
    - development 3700
    - environmental factors 837, 6566, 9009
  - cassava 6566
    - commodities 843, 4483, 5743
  - cereal grains 9009
    - damage 10032, 10056
    - South Carolina 4809
    - USA 2772
  - cereals, commodities, Yugoslavia 3700
  - control
    - biological control 2772
    - chemical control 6881, 9008, 9013, 11049, 12069
    - integrated control 9007
  - controlled atmospheres, effects 8125
  - ecology
    - environmental factors 9013
    - population dynamics 6871
  - genetics, insecticide resistance 10210
  - growth regulators, toxicity 1332
  - insecticides
    - effects 10038
    - repellents 2785
    - resistance 9556, 10210
    - toxicity 833, 1331, 10037, 11043
  - maize, commodities 9558
  - monitoring 4808
    - traps 8021
  - organic acids, effects 9558
  - pathogens 2781
  - physiology
    - enzymes 8125, 9163
    - heat production 6892
  - plant extracts
    - effects 843, 1769, 9002, 9163
    - toxicity 6864, 10036
  - rearing techniques 3799
  - rice
    - commodities 10036
    - Tamil Nadu 8021
  - soyabeans, commodities 12069
  - wheat
    - commodities 1769, 2785, 3799, 6864, 6880, 6892, 9002, 10037-10038, 11043
    - Georgia 9008
    - Indian Punjab 6868
    - Kansas 4808, 6871
    - Manitoba 9013
    - Pakistan 9007, 11049
- Ribautodelphax imitans***
  - biology, behaviour 3979
  - songs 3979
- Ribautodelphax imitantoides*, songs 3979**
- Ribes***
  - arthropod pests, certification 10862
  - Cecidophyopsis* 5534
  - Mexico 6840
  - Synanthedon tipuliformis*, Hungary 2565
- Ribes alpinum*, *Cecidophyopsis alpinum*, Finland 5534**
- Ribes aurea*, *Cecidophyopsis aureum*, Poland 5534**
- Ribes grossularia* (see Gooseberries)**
- Ribes nigrum* (see Black currants)**
- Ribes pringlei*, *Euphranta mexicana*, Mexico 17**
- Ribes rubrum* (see Red currants)**
- Ribes uva-crispa* (see Gooseberries)**
- Riccardoella limacum***
  - hosts
    - Helix aspersa* 9427
    - snails 933
  - morphology 933
- Rice (*Oryza sativa*)**
  - Acrididae, Tamil Nadu 6143
  - arthropod pests, yield losses, models 7714
  - arthropods, Orissa 9722
  - biological control, books 12090
  - Brevennis rehi*, resistance 2458
  - Chilo auricilius*, Yunnan 2471
  - Chilo suppressalis* 7537



## Rice cont.

- Chilo suppressalis* cont.  
 economic thresholds 9733  
 Fujian 9733  
 Honshu 568  
 Japan 10732  
 Kyushu 7710  
 Philippines 6485  
 resistance 2463, 6485  
 Taiwan 5438
- Chironomus tepperi*, New South Wales 9734
- Chlorops oryzae*  
 damage 8661  
 Fujian 8661
- Chondracris rosea*, Anhui 3295
- Cicadellidae, damage 10737
- Cnaphalocrocis medinalis* 2464, 11744  
 China 2446  
 damage 2446, 2455  
 India 570  
 Kyushu 7699  
 Philippines 2455  
 resistance 571, 10730  
 Shandong 10730  
 Uttar Pradesh 9723
- Coleoptera  
 economic thresholds 9728  
 Japan 6495, 9728
- Coleoscyrus mardi*, Pakistan 6415
- commodities  
*Dinoderus minutus* 5754  
 insect pests, Costa Rica 3704  
 insecticides, residues 845, 4805, 6882  
*Lasioderma serricorne* 9005  
*Rhyzopertha dominica* 10036  
   Tamil Nadu 8021  
*Sitophilus oryzae* 2773, 6487  
*Sitotroga cerealella* 10043  
   resistance 6888, 10055  
*Tribolium castaneum* 5271
- Cretonotos gangis* 3456
- Cyrtorhinus lividipennis*, Japan 7698
- Delphacidae  
 Japan 3460  
 Jiangsu 3468  
 Korea Republic 11748  
 resistance 1452, 2449, 7697  
 Vietnam 7697  
 Zhejiang 3466
- Diatraea saccharalis*  
 damage 10739  
 Puerto Rico 10739
- Dicladispa armigera*, Andhra Pradesh 7707
- Echinocnemus squameus*  
 China 7715, 9735  
 damage 7715, 9735
- Elenchus japonicus*, Philippines 4447
- extracts  
 attractants, *Sitophilus zeamais* 10054  
 toxicity, *Nilaparvata lugens* 8478
- fields  
*Anagrus flaveolus*, Hokkaido 10727
- Araneae  
 Bangladesh 3462  
 Colombia 3472, 11742  
 Hunan 6169  
 Korea Republic 5437
- arthropods, Fujian 2022
- beneficial arthropods  
 Indonesia 6482  
 Kyushu 8660
- beneficial insects, China 10728
- Carabidae, Honshu 5439
- Elenchus*, Colombia 3470
- Hymenoptera, Sri Lanka 4438
- Linyphiidae, China 3452
- parasitoids  
 Colombia 9724, 9726  
 Indonesia 5441
- pesticides, residues 1459
- Playgaster oryzae*, Orissa 5440
- predatory arthropods  
 China 11750  
 Philippines 8664  
 Zhejiang 3466
- Tachinidae, Rio Grande do Sul 4439
- flours, *Tribolium castaneum* 8022
- Fulgoroidea, Japan 7708

## Rice cont.

- habitats  
 natural enemies  
   Africa 1212  
   Orissa 11745
- Helicoverpa armigera*  
 China 8630  
 damage 8630
- Hemiptera  
 damage 9732  
 Karnataka 1453  
 Orissa 9732  
 Uttar Pradesh 9718
- Hydrellia*  
 Cuba 4442  
 resistance 4442
- Hydrellia wirthi*  
 Colombia 1457, 3471, 3475, 10738  
 damage 1457  
 resistance 2470
- insect growth regulators, uptake 6492
- insect pests 7708  
 Andaman and Nicobar Islands 1456  
 biology 8044  
 books 2829, 8044  
 Colombia 9724  
 control  
   chemical control 7702  
   cultural control, reviews 9532  
   integrated control 8044  
 expert systems 6491  
 Gujarat 1454  
 Haryana 5436  
 Kerala 3478  
 Kyushu 8660  
 Meghalaya 5263, 6480  
 Philippines 3457, 7702, 7713  
 resistance 574, 1455-1456, 6501  
 Vietnam 7702  
 yield losses 1454, 3457
- insecticides  
 effects 8666  
 residues 566-567, 2359, 11738  
   determination 6498
- integrated pest management  
 conferences 4814  
 Indonesia 577  
 reviews 1455, 3451
- intercropping, effects, insect pests 5263
- invertebrates, Philippines 572
- Isoptera, Goias 3476
- Laodelphax striatella*  
 Hokkaido 10727  
 Jiangsu 10733  
 Korea Republic 11747  
 resistance 576  
 yield losses 11747
- Leptocoris acuta*, India 3455
- Leucopholis lepidophora*, Maharashtra 3015
- Lissorhoptrus oryzophilus*  
 California 8667  
 Japan 6496-6497, 10740  
 Kyushu 11739  
 Louisiana 1458, 6483, 11737  
 resistance 1458, 2465
- Maliarpha separatella*  
 Africa 1212  
 damage 8665  
 Madagascar 8665
- Melanitis leda* 3464  
 West Bengal 3461
- Mythimna separata*, Madhya Pradesh 2467
- Nephotettix* 6936, 10742
- Nephotettix cincticeps* 2456  
 resistance 7709
- Nephotettix nigripictus*, Malaysia 6488
- Nephotettix virescens* 575, 2457, 11741, 11746  
 Malaysia 6488  
 Philippines 11740
- Nilaparvata lugens* 2466, 2469, 4448, 6481, 7494, 7704, 11511  
 East Asia 7705  
 Fujian 3467  
 Guangdong 9729  
 Indonesia 6482  
 Japan 6498, 7705  
 Jiangsu 4444, 8668, 10743  
 Karnataka 3459

## Rice cont.

- Nilaparvata lugens* cont.  
 Korea Republic 5437, 10448  
 Kyushu 4436  
 Malaysia 7706  
 outbreaks 11749  
 resistance 569, 2453-2454, 2462, 3459, 5435, 7696, 7706, 7711, 10743  
 Shanghai 7711  
 yield losses 8668
- Nisaga simplex*, India 7712
- Noctuidae, West Bengal 5442
- Oebalus ornatus*, Colombia 9726
- Oebalus ypsilongriseus*, Rio Grande do Sul 4439
- Orseolia oryzae*  
 Andhra Pradesh 2460  
 China 7703  
 Fujian 8662, 10729  
 galls 5440  
 Guangdong 3453  
 Guangxi 10734  
 India 2443  
 Madhya Pradesh 9736  
 Maharashtra 3465  
 Orissa 5440  
 resistance 2443, 2460-2461, 6486, 6500, 7716, 9736  
 Sri Lanka 4438
- Orseolia oryzivora*  
 Nigeria 2452  
 resistance 2452
- Oxya chinensis*  
 damage 8659  
 economic thresholds 8659  
 Hebei 8659
- Oxya yezoensis*  
 damage 6493  
 Japan 6493
- Paraponyx stagnalis* 4443
- Pelopidas mathias*, Philippines 6409
- Pentatomidae, Rio Grande do Sul 1460
- pest control 2830  
 Arkansas, reports 6903  
 Asia 572  
 Cambodia 10744  
 Cote d'Ivoire 7694  
 Goias 9721  
 reports 857, 860, 2798  
 West Africa 9032
- pest management, Tropics 11749
- pesticides  
 residues 9604  
 usage, Philippines 476
- pests, Sahel 3477
- Phyllopertha horticola*  
 Himachal Pradesh 2448  
 yield losses 2448
- Pomacea*, Philippines 2444-2445
- Pomacea canaliculata*  
 Asia 7701  
 damage 5443  
 Japan 5443  
 Philippines 3473  
 Taiwan 3469
- Pyralidae, resistance 573
- Rupela albinella* 3474  
 Colombia 3458
- Scirpophaga*  
 Pakistan 6489  
 resistance 6489
- Scirpophaga incertulas* 6499  
 Assam 4441, 10741  
 Bangladesh 7700  
 China 7491, 10728  
 economic thresholds 9730  
 Guangdong 10736  
 Indonesia 5441  
 Karnataka 10735  
 Philippines 6484  
 resistance 6484, 10735  
 yield losses 9730  
 Zhejiang 9730
- Scirpophaga neogilviberbis*, Pakistan 2468
- Sitotroga cerealella*, India 6490
- Sogatella furcifera* 9573, 9731  
 China 2447  
 damage 4445-4446, 10731  
 economic thresholds 2447



**Rice cont.**

- Sogatella furcifera* cont.  
 Honshu 4437  
 India 4440  
 Japan 4446, 6494  
 Kyushu 4445  
 Philippines 8664  
 resistance 2450-2451, 9719  
 yield losses 2447
- Spodoptera frugiperda* 10685
- Stenchaetothrips biformis*  
 resistance 2459  
 Tamil Nadu 2459
- Steneotarsonemus spinki*, Guangdong 9720
- Stenotus rubrovittatus*, Japan 9727
- Tagosodes*, Colombia 3470
- Tagosodes orizicolus*, damage 2862
- Thaia oryzipera*, Bangladesh 3463
- Thysanoptera, Philippines 11743
- Tibraca limbativentris* 7695  
 Colombia 9725  
 Santa Catarina 8663
- Tipula*, Heilongjiang 3454
- Rice black-streaked dwarf fujivirus**, vectors, *Laodelphax striatella* 11747
- Rice dwarf phytoreovirus**, vectors, *Nephotettix cincticeps* 3285
- Rice stripe tenuivirus**, vectors, *Laodelphax striatella* 576, 10733, 11747
- Rice stripe virus** (see Rice stripe tenuivirus)
- Rice tungro bacilliform badnavirus** vectors  
*Nephotettix* 6936, 10742  
*Nephotettix virescens* 2457
- Rice tungro spherical ribotungrovirus** vectors  
*Nephotettix* 6936, 10742  
*Nephotettix cincticeps* 2456  
*Nephotettix virescens* 575
- Rice tungro viruses**, vectors, insects 2803
- Richardia brasiliensis*, *Galiomyza richardii*, Brazil 2858
- Rhiza albicosta**  
 maize  
 damage 1441  
 Nebraska 1441
- Ricinus communis*, *Spodoptera litura* 2600
- Ricinocarpodendron polystachyum*  
 Bangladesh 4794  
 extracts  
 effects  
*Sitophilus oryzae* 6487  
*Tribolium castaneum* 6279  
 toxicity, *Callosobruchus chinensis* 4794  
 insecticidal properties 6487
- Ricinus*, *Spodoptera litura* 3419
- Ricinus communis**  
*Agrotis biconica* 4635  
 effects, *Earias vittella* 8748  
*Euproctis scintillans* 1589  
 extracts, effects, Coleoptera 4801  
*Liriomyza trifolii*, India 1607  
 pollen, *Euseius mesembrius* 3220  
*Samia cynthia ricini* 6416, 11467  
*Spilarctia obliqua* 9748  
*Spodoptera exigua* 691  
*Spodoptera littoralis* 2259, 8959  
*Spodoptera litura* 9908
- Rickettsia*, hosts, *Adalia bipunctata* 2197
- Rickettsiella phytoseiuli*, *Phytoseiulus persimilis*, interactions 5223
- Ricnopeltomyia*, taxonomy, synonyms, of *Neochrysocharis* 8090
- Ridge gourds** (see *Luffa acutangula*)
- Rinorea deflexiflora*, *Atta cephalotes*, Costa Rica 7925
- Ripcord** (see Cypermethrin)
- Riptortus clavatus*  
 biochemistry, hormones 7034  
 parasitoids 8295
- Riptortus dentipes**  
 control  
 chemical control 595  
 cultural control 595  
 cowpeas, Nigeria 595
- Riptortus pedestris*, *Vigna mungo*, Uttar Pradesh 10778
- Rivellia**  
 distribution, East Asia 4048

**Rivellia cont.**

- taxonomy, new species 4048
- River water**, insecticides, residues 2346
- Rivers**  
 insecticides, residues 4327, 6392, 7611, 7613, 8557, 8588, 8595, 10652, 11677  
 pesticides, residues 2382, 3355, 3400, 3403, 4329, 4333, 5362, 6379  
 wood preservatives, effects 8581
- Robinia**, *Lymantria dispar*, Yugoslavia 1679
- Robinia pseudoacacia**  
*Aphis craccivora*, Argentina 3631  
*Appendiseta robiniae*, Argentina 3650  
 insect pests  
 damage 2655  
 North Carolina 2655  
 Lepidoptera, Honshu 2687  
*Phyllonorycter robinella*, Italy 2685
- Rodenticides**, legislation 1386
- Rodents**  
 insecticides  
 effects, nontarget effects 4449  
 toxicity 2329  
 pesticides, mixtures, toxicity, testing 8568  
 prey, *Antheraea yamamai* 8245
- Rodolia cardinalis**  
 Fabaceae, Israel 1723  
 growth regulators, toxicity 11607  
 prey, Hemiptera 1723
- Rodrigues Islands**, Nymphalidae 9375
- Rogeria*, taxonomy 11114
- Rogor** (see Dimethoate)
- Rollinia mucosa*, insect pests, Amazonas 8794
- Romalea guttata**  
 biochemistry, defensive secretions 2921  
 biology, behaviour 2921  
 food plants 2921  
 physiology, water relations 2943
- Romania**  
 Chrysomelidae 3125  
 crops, arthropod pests 533  
 fruits, insecticide residues 642  
*Paragus* 1838  
*Phellinus*, *Dorcatoma minor* 6962  
*Quercus*, insect pests 7917  
 runoff, insecticide residues 6389  
 sorghum, *Ostrinia nubilalis* 564  
 Syrphidae 2037
- Root crops**, commodities, *Lasioderma sericorne* 9005
- Ropalidia spatulata**  
*Vitex negundo*  
 Andhra Pradesh 5684  
 pollination 5684
- Rorippa indica**  
*Pieris rapae*  
 damage 5713  
 Honshu 5713  
*Plutella xylostella* 2749
- Rorippa islandica*, *Plutella xylostella* 2749
- Rorippa montana*, *Plutella xylostella*, China 3420
- Rosa** (see also Roses)  
 Aphididae, Argentina 7971  
*Choristoneura rosaceana* 647  
*Sitobion rosaeiformis*, Himachal Pradesh 11245  
*Trialeurodes vaporariorum*, Tamil Nadu 7968
- Rosa canina**  
 Lepidoptera, Russia 6821  
*Rhagoletis alternata* 10986
- Rosa rugosa**  
*Diplolepis polita*  
 galls 6811  
 Ontario 6811  
*Rhagoletis alternata* 10986
- Rosaceae**  
*Phthorimaea operculella* 4487  
*Taeniothrips inconsequens* 1150
- Rosemary** (*Rosmarinus officinalis*)  
*Hemineura bigoti*, Spain 2729  
 oils, effects, *Acanthoscelides obtectus* 5692
- Roses** (see also Rosa)  
 Aleyrodidae, Israel 9956  
*Bemisia tabaci*, Israel 4263  
*Cladius pectinicornis*, Honshu 7970

**Roses cont.**

- Eurhizococcus brasiliensis*, Santa Catarina 3995
- greenhouses, *Phytoseiulus persimilis*, New York 10980, 12024
- habitats  
*Aphidius rosae*, Germany 4752  
*Hippodamia convergens*, California 8940  
*Phygadeuon*, Honshu 7970  
*Macrosiphum rosae*, California 8940  
*Poekilocerus pictus* 2403  
*Sitobion fragariae*, Germany 4752  
*Tetranychus*, California 12028  
*Tetranychus urticae* 1710, 3200, 8263  
 New York 10980, 12024  
 Sao Paulo 2724
- Rosmarinus officinalis** (see Rosemary)
- Rotations**  
 control, insect pests, sunflowers 2593  
 effects, insect pests, crops 1284
- Rotenone**  
 control  
*Bemisia tabaci*, vegetables 11774  
*Thrips palmi*, vegetables 11775  
 effects, aquatic organisms 2302  
 insecticidal properties 6316  
 residues, water 11665  
 uptake, *Pimephales promelas* 2303
- Rotifera**, insecticides, effects 8573
- Rotylenchulus reniformis*, insecticides, effects 9749
- Row covers**, effects, Homoptera 8747
- Roystonea regia*, *Metamasius hemipterus sericeus*, Florida 2239
- Rubber (plants)** (see *Hevea brasiliensis*)
- Rubus**  
 habitats  
 Carabidae, France 5703  
 predatory mites, Massachusetts 648  
 insect pests, certification 10860  
*Kampimodromus ericinus*, Italy 8058  
*Lonchodes harmani*, Brunei Darussalam 2847  
*Neolema cordata* 917
- Rubus ellipticus*, *Sitobion rosaeiformis*, Himachal Pradesh 11245
- Rubus fruticosus* (see Blackberries)
- Rubus idaeus* (see Raspberries)
- Rubus idaeus* subsp. *vulgatus*  
*Cantharis obscura*  
 damage 4569  
 UK 4569
- Rubus occidentalis*  
*Cantharis obscura*  
 damage 4569  
 UK 4569
- Rubus strigosus* (see Raspberries)
- Rudbeckia hirta*, *Chlorochlamys chloroleucaria*, Quebec 11322
- Rufast**, control, *Tetranychus urticae*, grapes 6670
- Rumex**, *Premnotypes vorax* 10784
- Rumex crispus**  
*Gastrophysa viridula* 4784, 11012  
 UK 4784
- Rumex nepalense*, *Hypolixus truncatulus* 4785
- Rumex obtusifolius**  
 Aphididae 788  
*Gastrophysa viridula* 4784, 11012  
*Lygus lineolaris*, Quebec 4110  
*Pegomya nigritarsis*, damage 4788  
*Tipula paludosa* 7722
- Runoff**, pesticides, residues 5366-5367
- Rupela albinella**  
 biology, behaviour 3474  
*Magnaporthe salvinii*, interactions 3458  
 rice 3474  
 Colombia 3458
- Russia**  
*Adalia bipunctata* 172  
 agricultural chemicals, markets 414-415  
*Ambrosia artemisiifolia*, natural enemies 5255  
 apples  
*Agrilus mali* 11859  
 insect pests 2554  
 aquatic organisms, insecticide residues 4322  
*Chorthippus* 5123



**Russia cont.**  
crops, Acrididae 11406  
food plants, *Archips rosanus* 9828  
forest litter, soil arthropods 9456  
forest trees  
Coleoptera 1659  
wood, Coleoptera 10057  
greenhouse crops  
insect pests 2529  
*Liriomyza bryoniae* 11828  
Heteroptera 4045, 8105  
*Hippophae rhamnoides*, *Macropsis* 5793  
Homoptera 4837  
integrated pest management 6915  
*Larix*, *Dendrolimus superans* 780  
Lepidoptera 10296  
Linyphiidae 12102  
*Lymantria* 10489  
*Mamestra brassicae* 4359  
medicinal plants, Lepidoptera 6821  
pheromones, production 11688  
*Pinus sylvestris*, *Panolis flammea* 8906  
plant protection, conferences 6910  
potatoes, *Macrosiphum euphorbiae* 6560  
*Stictiocephala bisonia* 8316  
*Tetranychus urticae* 4005

**Russian Far East**  
apples, *Agrilus mali* 11859  
Heteroptera 4045  
*Hypselistes* 4825  
*Lymantria* 10489

**Rutabagas** (see Swedes)

**Rutelinae**  
America 2850  
taxonomy 2850

**Rutilus rutilus**, pesticides, residues 8574

**Rutoside**, effects, insect pests 4792

**Rwanda**  
grain legumes, Thripidae 587  
*Phaseolus vulgaris*, *Ophiomyia spencerella* 590

**Ryania speciosa**, extracts, effects, insect pests 4259

**Rye** (*Secale cereale*)  
*Chinomus haywardi* 3425  
*Diuraphis noxia*  
Argentina 10493  
resistance 7651  
fields, insects, Germany 1125  
*Haplothrips aculeatus*, Poland 3421  
insect pests  
damage 4398  
Georgia 4398, 9670

**Sabadilla**, effects, *Tribolium confusum* 6328

**Sabal pameito**, extracts, attractants,  
*Rhynchophorus cruentatus* 4362

**Saccharicoccus sacchari**  
fertilizers, effects 2604  
sugarcane, Queensland 2604

**Saccharomyces cerevisiae**, insecticides, effects 5348

**Saccharomyces sake**, hosts, *Plutella xylostella* 370

**Saccharum munja**, *Microceroterms championi*, Pakistan 3685

**Saccharum officinarum** (see Sugarcane)

**Sacchiphantes abietis**  
ecology, spatial distribution 7958  
*Picea glauca*  
galls 7958  
New Brunswick 7958

**Safflower** (*Carthamus tinctorius*)  
*Acanthophilus helianthi*, Pakistan 11926  
Aphididae, Maharashtra 10724  
habitats, insects, Delhi 4101  
insect pests, Maharashtra 12047  
*Uroleucon carthami*, Maharashtra 3580  
*Uroleucon sonchi*, Maharashtra 11925

**Safrotin** (see Propetamphos)

**Sahel**  
pest control, books 893  
plant protection, conferences 6918  
rice, pests 3477

**Sailia sailis**, pesticides, residues 5332

**Saissetia**  
*Citrus*, New Zealand 6679  
control, chemical control 6679

**Saissetia coffeae**  
biology 1623  
coffee, India 1623  
control 1623

**Saissetia oleae**  
control 11900  
integrated control 6709  
lemons, Italy 11900  
olives, Spain 6709

**Salebriopsis albicilla**, broadleaves, Spain 4685

**Salicornia virginica**, *Carneiocephala floridana*, Florida 4777

**Salicylic acid**, effects, entomopathogens 9468

**Salignus**, taxonomy 3770

**Salignus distinguendus tahoensis**, taxonomy, synonyms, of *S. tahoensis* 3770

**Salignus tahoensis**, taxonomy, synonyms, *Salignus distinguendus tahoensis* 3770

**Salithion** (see Dioxabenzofos)

**Salix**  
Apion  
galls 2669  
Shandong 2669  
*Epiacanthus satoi*, Honshu 6944  
habitats, *Diloponiss fuerschi*, Iran 674  
Hemiptera, Iran 674  
*Idiocerus sharmai*, Himachal Pradesh 6980  
insect pests 9029  
Alaska 7921  
insects, Switzerland 2759  
*Nematus frenalis*, Shandong 11993  
*Phyllocolpa*, galls 1675  
*Pontania*  
galls 7924  
UK 7924  
*Thrips fallaciosus* 919  
*Thrips intricatus* 919

**Salix alba**, *Plagioderia versicolora*, Illinois 6762

**Salix arctica**, *Gynaephora groenlandica*, Canada 11302

**Salix babylonica**  
habitats, beneficial insects, Southern Africa 10948  
*Nematus oligospilus*, Southern Africa 10948  
*Paranthrene robiniae*, California 4686  
*Pontania viminalis*, galls 4846

**Salix borealis**, *Phratora* 1655

**Salix caprea**  
*Dasineura* 8880  
*Polygona c-album* 530, 4387

**Salix cordata**  
*Altica bimarginata* 3644-3645, 4702  
Michigan 5651

**Salix discolor**  
*Phyllocolpa*  
galls 3646  
New York 3646  
resistance 3646

**Salix eriocephala**  
arthropod pests  
galls 5650  
New York 5650  
resistance 5650

*Phyllocolpa*  
galls 3646  
New York 3646  
resistance 3646

**Salix eriocephala** × *S. sericea*  
arthropod pests  
galls 5650  
New York 5650  
resistance 5650

**Salix exigua**  
*Altica bimarginata*, Michigan 5651  
*Disonycha pluriligata*, Arizona 4704  
*Rabdophaga*  
damage 7922  
Utah 7922

**Salix fragilis**  
extracts, metabolism, *Chrysomela lapponica* 1657  
habitats, beneficial insects, Southern Africa 10948  
*Nematus oligospilus*, Southern Africa 10948

**Salix lapponum**, *Cacopsylla*, Norway 11994

**Salix lasiandra**, *Nematus calais*, Alaska 1674

**Salix lasiolepis**  
arthropod pests, Arizona 11995

**Salix lasiolepis cont.**  
*Euura lasiolepis*  
Arizona 4703  
galls 4703

**Salix myrsinifolia**  
extracts  
attractants  
*Euura amerinae* 5375  
*Phratora vitellinae* 7923

*Pontania aestiva*  
Europe 4846  
galls 4846

**Salix nigra**  
*Plagioderia versicolora* 11329  
Illinois 6762

**Salix pentandra**  
*Euura amerinae*  
Finland 2668  
galls 2668  
resistance 2668

extracts  
attractants  
*Euura amerinae* 5375  
*Phratora vitellinae* 7923

**Salix phylicifolia**, *Gonioctena pallida*, Russia 1659

**Salix purpurea**  
*Pontania aestiva*  
Europe 4846  
galls 4846  
*Pontania viminalis*, galls 4846

**Salix repens**, *Dasineura* 8880

**Salix sericea**  
arthropod pests  
galls 5650  
New York 5650  
resistance 5650  
habitats, *Trichogramma*, New York 6761  
insect pests  
New York 6761  
resistance 6761  
*Phyllocolpa*  
galls 3646  
New York 3646  
resistance 3646

**Salix triandra**  
extracts  
attractants  
*Chrysomelidae* 7923  
*Euura amerinae* 5375

**Salix viminalis**  
*Dasineura* 8880  
*Dasineura ingeris*  
galls 8880  
Sweden 8880  
*Dasineura marginemtorquens*  
galls 10262  
resistance 4705  
Sweden 4705  
*Pontania aestiva*  
Europe 4846  
galls 4846

**Salmo trutta**, insecticides, toxicity 11651

**Salmonella typhimurium**, insecticides, effects 5349

**Salsola forskalii**, *Schistocerca gregaria*, Sudan 5710

**Salt** (see Sodium chloride)

**Salt land**, Carabidae, Germany 1131

**Salt marshes**  
insects, Florida 5165  
sediment, pesticides, residues 4344

**Salticella fasciata**  
France 353  
hosts, Helicidae 353

**Salticidae**  
biology, behaviour 200, 1067, 2579  
*Citrus*, orchards, South Africa 2579  
distribution, China 7293  
ecology, population dynamics 1417, 5167, 11929  
fields, habitats, Mississippi 5167  
monitoring, traps 5167, 11929  
Nicaragua 9365  
olives, orchards, Italy 11929  
prey  
*Atherigona soccata* 1417  
*Tetranychus cinnabarinus* 10371  
*Trioxa erythrae* 2579  
sorghum, fields, Burkina Faso 1417

**Salurnis**, Oriental Region 49



- Salurnis formosanus**, taxonomy, synonyms,  
*Salurnis marginellus* 49
- Salurnis marginellus**, taxonomy, synonyms,  
 of *Salurnis formosanus* 49
- Salvelinus fontinalis**  
 insecticides  
 residues 7616  
 toxicity 11651
- Salvelinus namaycush**  
 insecticides  
 residues 7616  
 analysis 3343
- Salvelinus namaycush siscowet**, insecticides,  
 residues 11637
- Salvia aethiops**, *Phrydiuchus tau*, Idaho  
 3693
- Salvia splendens**, *Bemisia tabaci* 3988
- Salvinia molesta**, control, biological control  
 5720
- Samanea saman**, *Merobruchus columbinus*,  
 Honduras 5631
- Sambucus sieboldiana**, habitats, *Dapsilar-  
 thra okazakii*, Honshu 4841
- Samea multiplicalis**, *Pistia stratiotes*, Florida  
 3694
- Samia cynthia**, genetics, messenger RNA  
 9242
- Samia cynthia pryeri**  
*Aeromonas caviae*, symbiosis 3003  
 biology, environmental factors 225
- Samia cynthia ricini**  
 biochemistry  
 nutrition 11467  
 ontogeny 7108  
 biology, environmental factors 225, 8284  
 diets 6416  
 food plants 6416, 11467  
 physiology  
 digestive system 105  
 nutrition 6416  
 pheromones 5196
- Sampling**  
 Acari 5115  
 Aculeata 11350  
 Aphididae, wheat 3433  
 Aphis gossypii, cotton 707  
 arthropod pests, crops 6917  
 arthropods 6086  
 biodiversity 3011  
 grasslands 6126  
*Ataenius spretulus*, lawns and turf 10009  
*Bemisia tabaci*  
 cotton 8841  
 melons 9819  
 Bibionidae, soil 268  
*Brevipalpus phoenicis*, tea 9934  
*Cacopsylla pyricola*, pears 4563  
*Cavelerius saccharivorus*, sugarcane  
 7878  
*Chilo partellus*, cereals 4397  
*Chilocorus bijugus* 7851  
*Choristoneura occidentalis*, Pinopsida  
 4720  
*Clanis bilineata*, soybeans 3495  
*Dendrolimus punctatus*, *Pinus* 6788  
*Diabrotica*, maize 4425  
*Diuraphis noxia*  
 cereals 7649  
 wheat 6433-6434  
*Dryocosmus kuriphilus*, *Castanea* 5657  
 Elateridae, sugarcane 10904  
 equipment 7301  
*Etiella zinckenella* 7214  
 forest trees, Coleoptera 1659  
 Formicidae, tropical forests 289  
*Frankliniella*, tomatoes 8741  
*Helicoverpa armigera*, wheat 10688  
*Hydrellia wirthi*, rice 10738  
*Hypothenemus hampei*, coffee 9938  
 insect pests 10495-10496  
 cereal grains 10034  
 cotton 8840  
 fruits 10840  
 tomatoes 6610  
 insects 2079, 4223, 8333  
 grasslands 8671  
*Leptinotarsa decemlineata*, melons 4542  
*Liriomyza huidobrensis*, celery 10809  
*Lygus pratensis*, cotton 7890  
*Lymantria dispar* 4224-4225, 10491  
*Macrosiphum euphorbiae*, tomatoes 4525

# **Sampling cont.**

- Mononychellus tanajoa*, cassava 2508  
*Opsiphanes cassina*, oil palms 683  
*Orius* 2537  
*Ostrinia nubilalis*, cotton 3618  
*Panonychus ulmi*, apples 4561  
*Perileuocoptera coffeella*, coffee 4643,  
 5595  
*Phyllocoptruta oleivora*, *Citrus* 7850  
*Phyllonorycter blancardella*, apples 3535  
 predatory arthropods, grapes 5540  
*Rhopalocera* 5114, 10492  
*Smicronyx fulvus*, sunflowers 8804  
*Sogatella furcifera*, rice 4440  
 stored products pests 2816  
*Tetranychus cinnabarinus*, aubergines  
 2536  
*Tetranychus urticae*, roses 10980  
*Thrips tabaci*, onions 8721
- SAN 415 I** (see *Bacillus thuringiensis* subsp.  
*kurstaki*)
- Sand pine** (see *Pinus clausa*)
- Saniosulus nudus**  
 distribution, Australia 4847  
 prey, *Diaspis echinocacti* 4847
- Sanmite** (see Pyridaben)
- Sansevieria**, *Suocerathrips linguis*, UK 2852
- Sansevieria hahnii**, *Suocerathrips linguis*,  
 UK 2852
- Sansevieria parva**, *Suocerathrips linguis*,  
 UK 2852
- Santalum album**  
*Amata passalis*, Karnataka 751  
 habitats, parasitoids, Karnataka 751
- Santolina chamaecyparissus**, *Coleophora*  
*involutella*, Spain 584
- Sapindaceae**, Cerambycidae 3530
- Sapindus saponaria**, extracts, effects,  
*Tribolium castaneum* 410
- Sapodillas** (*Manilkara zapota*)  
*Anarsia achrasella*  
 damage 1581  
 India 7857  
 Karnataka 1581  
*Augocoris gomesii*, Venezuela 7855  
 habitats, *Goniozus*, India 7857  
 Lepidoptera, Gujarat 5563  
*Nephoterix eugraphella*, Gujarat 11981  
*Tenuipalpus danxianensis*, Hainan 11132
- Saponins**, adjuvants 10504
- Saprolegnia ferax**, insecticides, effects 7591
- Sapyga quinquepunctata**, hosts, *Osmia*  
*tricornis* 5148
- Sarcopetalum harveyanum**, *Eudocima ful-  
 lonia* 800
- Sarcophaga**  
 Czech Republic 4294  
 heavy metals, effects 4294  
 hosts  
 Helicidae 4294  
 Lumbricidae 4294
- Sarcophaga kellyi**, control, Acrididae, evalu-  
 ation 6144
- Sarcophaga penicillata**  
 France 8403  
 hosts, *Cochlicella acuta* 8403  
 parasitoids 8403
- Sarcophaga peregrina**, biochemistry,  
 immune response 11490
- Sarcophagidae**, control, Acrididae, evalu-  
 ation 6144
- Sarcostemma clausum**, *Danaus gilippus*,  
 Florida 4025
- Sardinia**  
 Coleoptera 6942  
 food plants, Nitidulidae 11845  
*Quercus*, *Lymantria dispar* 5645  
 tomatoes, insect pests 2532
- Sarona**  
 attractants 6396  
 Hawaii 6396
- Sarothamnus scoparius** (see *Cytisus*  
*scoparius*)
- Sarsina violascens**, *Eucalyptus urophylla*,  
 Minas Gerais 4694
- Sarson** (*Brassica napus*)  
 Aphididae, Delhi 3587  
*Brevicoryne brassicae* 5501  
*Delia floralis*, resistance 4512  
 insect pests, Himachal Pradesh 2602

# **Sarson cont.**

- insecticides  
 residues 1608  
 resistance 9920  
*Lipaphis erysimi*, Delhi 1502  
*Myzus persicae* 7774  
 odours, effects, *Meligethes aeneus* 7775  
 pests  
 resistance 5571  
 UK 5571  
*Phyllotreta cruciferae*, resistance 2402  
*Psylliodes chryscephala* 7005  
 Europe 4620
- Sarucallis kahawaluokalani**  
 control, chemical control 2719  
*Lagerstroemia indica*, Louisiana 2719
- Sathrobota rileyi** (see *Pyroderces rileyi*)
- Satisfar** (see *Etrinfos*)
- Satsumas**  
*Aphis gossypii*, Japan 10288  
 extracts, effects, *Papilio* 10676
- Satureja gilliesii**  
 extracts  
 antifeedants, *Spodoptera littoralis*  
 5381  
 insecticidal properties 5381
- Saturniidae**  
*Eucalyptus*, Brazil 1660  
*Fagus*, Slovakia 3642  
 taxonomy, revisions 4842
- Satyriinae**, distribution, Australia 9371
- Saudi Arabia**  
*Acacia*, *Bruchidius* 12002  
 Cerambycidae 2043  
 crops, insect pests 5386  
 Isopoda 2040  
 lucerne, *Hypera postica* 9747  
*Microcerotermes parvulus* 2035  
 wheat, insect pests 5259
- Saussurea lappa**, extracts, antifeedants,  
*Spodoptera litura* 6829
- Savanna woodlands**, *Atta laevigata*, Vene-  
 zuela 9308
- Savannas**  
 insects, ecology 180  
*Locusta migratoria migratorioides*, Mad-  
 agascar 5709
- Scaeva pyrastris**  
 cereals, fields, Germany 8625  
 ecology, population dynamics 8625
- Scale insects** (see Coccoidea)
- Scambus**, hosts, *Homoeosoma nebulella*  
 3201
- Scandinavia**  
 atmosphere, insecticide residues 3141  
*Betula*, insect pests 6745  
 forests, insects 5620  
 Lepidoptera 2841  
*Silene dioica*  
 Diptera 6861  
 pollinators 6861
- Scaphinotus marginatus**  
 biology, behaviour 223, 3050  
 prey  
 Gastropoda 223  
 invertebrates 3050
- Scaphirhynchus albus**, pesticides, residues  
 5344
- Scaphodhara**  
 India 6979  
 taxonomy, new genus 6979
- Scaphoideus titanus**  
 grapes 9879  
 France 2573  
 Italy 658, 10868  
 plant pathogens, transmission 658, 2573,  
 9879, 10868
- Scapteriscus**, pathogens 5250
- Scapteriscus borellii**  
 control, biological control 4756  
 lawns and turf, Florida 4756
- Scapteriscus vicinus**  
 control, biological control 4756  
 lawns and turf, Florida 4756  
*Zoysia*, resistance 4453
- Scaptocoris castanea**  
 distribution, Sao Paulo 2477  
 pastures, Sao Paulo 2477
- Scaptomyza**, genetics 1027
- Scaptomyza caliginosa**  
 ecology, competition 2723



*Scaptomyza caliginosa* cont.  
    *Ipomoea acuminata*, Hawaii 2723

*Scaptomyza rostrata*  
    attractants 6396  
    Hawaii 6396

*Scaptomyza tantalia*  
    attractants 6396  
    Hawaii 6396

*Scaptomyza varipicta*  
    attractants 6396  
    Hawaii 6396

**Scarabaeidae**  
    Andaman and Nicobar Islands 1145  
    Anhui 10290  
    aromatic compounds, attractants 11685  
    Colombia 10441  
    control, chemical control 1595, 6714, 11934  
    crops, Maharashtra 1408  
    ecology 3009  
        biomass, estimation 6023  
        environmental factors 10400  
        habitats 10400  
        insect communities 10290  
        population dynamics 611, 3087  
    forest trees, Chile 5629  
    golf courses, Honshu 12034  
    grasslands, Spain 6023  
    groundnuts  
        Africa 6713  
        China 11934  
        damage 4629, 6713  
        South Africa 6714  
    integrated pest management, reviews 1408  
    lawns and turf, Florida 10007  
    morphology, wings 1855  
    natural enemies 10441  
    Parana 7267  
    parasitoids 10007  
    pathogens 6251  
    Poland 3009  
    South Africa 10400  
    soyabeans, Nepal 10766  
    sugarcane  
        Australia 11950  
        reviews 11950  
    sunflowers, France 1595  
    sweet potatoes  
        damage 611  
        Honshu 611

**Scarabaeinae**  
    irrigation, effects 2649  
    monitoring, traps 2649  
    tropical rain forests, Panama 2649

**Scarabaeoidea**  
    control, chemical control 9929  
    ecology 10082  
    evolution 927  
    Korea Republic 10082  
    sugarbeet, Shanxi 9929  
    taxonomy 10082

*Scarites gigas* (see *S. sulcatus*)

*Scarites indus*, distribution, South Asia 3122

*Scarites subterraneus*  
    maize, fields, Virginia 3437  
    prey, *Mythimna unipuncta* 3437

*Scarites sulcatus*, Korea Republic 1158

**Scathophaga**  
    prey, Aphididae 542  
    wheat, fields, South Africa 542

*Scathophaga stercoraria*  
    predators 8373  
    USA 8373

*Scatophaga* (see *Scathophaga*)

**Scelio**  
    hosts, Acrididae 9431  
    USA 9431

*Scelio opacus*  
    hosts, Acrididae 9431  
    USA 9431

**Scelionidae**, hosts, *Pseudothraupis wayi* 10883

**Sceliphron**  
    biology 4852  
    New Zealand 4852  
    taxonomy 4852

*Scelodonta strigicollis*, grapes, resistance 6665

*Sceloporus occidentalis*, insecticides, residues 11614

*Scenedesmus acutus*  
    extracts  
        effects, *Spodoptera littoralis* 8959  
        insecticidal properties 8959

*Scenedesmus obliquus*, insecticides, effects 10614

*Scenedesmus subspicatus*, insecticides, effects 8533

**Sceptobiini**  
    Formicidae, interactions 50  
    taxonomy 50

**Schachongdan**, resistance, *Chilo suppressalis* 5295

*Schedorhinotermes breinli*  
    biology, migration 6206  
    morphology 6207  
    Northern Territory 6206  
    Western Australia 6207

*Schedorhinotermes intermedius actuosus*  
    biology, migration 6206  
    Northern Territory 6206

*Schedorhinotermes Sarawa-Kensis* (see *Rhinotermes sarawakensis*)

*Scheelea zonensis*, seeds, Bruchidae, Panama 7900

*Scheloribates laevigatus*  
    biology, environmental factors 11752  
    Egypt 11752  
    pathogens 11752

*Schinopsis balansae*, *Dorcacerus barbatus*, Argentina 4689

*Schinus*, *Dorcacerus barbatus*, Argentina 4689

*Schistocerca americana*  
    biochemistry  
        lipids 10204  
        membranes 10162  
    biology, behaviour 3965, 3980, 9305  
    diets 3980  
    food plants 3965, 3980

*Schistocerca americana gregaria*, biochemistry, chemical composition 9212

*Schistocerca gregaria*  
    Africa 1282  
    azadirachtin, effects 9549  
    bacteria, symbiosis 11502  
    bibliographies 9047  
    biochemistry  
        chemical composition 9179, 10178  
        cuticle 7050  
        enzymes 3277  
        membranes 8132, 9166  
        nervous system 5908, 5911  
        polypeptides 142  
        proteins 5905, 10181  
        receptors 3838  
        vitellogenins 11208  
    biology  
        behaviour 3836, 5047, 5122, 6044, 9190, 9291, 11300  
        reproduction 7169  
    botanical insecticides, effects 10520  
    cassava, Benin 11797  
    control 1187  
        books 3725  
    ecology, population dynamics, models 5710  
    faeces, extracts, attractants 5122  
    food plants, Sudan 5710  
    forest trees, West Africa 8468  
    growth regulators, effects 7621  
    horticultural crops, West Africa 8468  
    insecticides  
        deposition 8483  
        effects 4079, 6330, 10178  
        excretion 8486  
    maize 6830  
    Mauritania 4079  
    pathogens 1282, 6237, 7424, 7466, 10446, 11502  
    pesticides, effects 8132  
    pheromones 3836, 5122, 6044, 7169, 9179  
    physiology  
        cold hardiness 11295  
        development 7621  
        endocrine system 115  
        excretory system 7071  
        immunity 1895  
        muscles 10180

*Schistocerca gregaria* cont.  
    physiology cont.  
        nervous system 983, 2393, 5912, 5914, 9190  
        sense organs 126, 9196  
        senses 5922  
    plant extracts  
        antifeedants 4381, 4764, 6830, 8490  
        effects 1727-1728, 8351  
    plant oils, effects 11797  
    semiochemicals 11300  
    Tunisia 1187  
    West Africa 10485, 10487

*Schistocerca shoshone*  
    biology, behaviour 6061  
    USA 6061

*Schizachyrium scoparium*, extracts, antifeedants, Acrididae 7719

*Schizaphis graminum*  
    *Acremonium coenophialum*, interactions 10747  
    barley, damage 3435, 9688  
    biochemistry  
        enzymes 7544, 7546  
        metabolism 453  
    biology  
        behaviour 4395, 5404, 6436  
        biotypes 8627, 10723  
    biotypes 6424  
    *Buchnera*, symbionts 8220  
    *Buchnera aphidicola*, symbiosis 8347, 8422  
    cereals  
        damage 6424  
        Idaho 6424  
        resistance 4395  
        USA 8627  
    ecology, distribution 3433  
    *Festuca arundinacea* 10747  
    genetics  
        DNA 5997  
        DNA fingerprinting 539  
        pest resistance 10723  
    *Hordeum chilense*, resistance 547  
    hydroxamic acids, effects 5404  
    Idaho 10451  
    insecticides  
        effects 453  
        resistance 453, 1427, 4978, 7544, 7546-7547  
    maize, resistance 3442  
    parasitoids 563, 6183, 6428  
    pathogens 5218  
    plant extracts, antifeedants 6436  
    plant pathogens, transmission 7687, 10451  
    Poaceae, Chile 9741  
    predators 7366, 7650  
    sampling 3433  
    sorghum 7687  
        damage 4432  
        France 563  
        resistance 1451, 6472, 10723  
    triticale, resistance 3443  
    wheat 4400, 5404  
        Brazil 9682  
        damage 4406  
        Italy 2412  
        resistance 6436, 6443, 9682, 9686  
        Shandong 3433  
        USA 539, 1427, 8633, 9686  
    wheat streak mosaic rymovirus, interactions 4400

*Schizocosa*  
    biology, behaviour 5154  
    parasitoids 5154

*Schizocosa royneri*  
    biology, behaviour 5154  
    fields, habitats, North America 5154  
    parasitoids 5154

*Schizolachnus pineti*  
    parasitoids 8367  
    *Pinus sylvestris* 8367  
        Finland 5664-5665, 7937  
    pollutants, effects 5664-5665

*Schizomyia phyllireae*  
    *Phyllireae angusii*, folia  
        galls 8888  
        Spain 8888

*Schizonotus latus*  
    hosts, *Chrysomela tremula* 6760



- Schizonotus latus* cont.  
Populus, forests, France 6760
- Schizonotus sieboldi*  
hosts, *Chrysomela tremula* 6760  
Populus, forests, France 6760
- Schizotetranychus lushanensis*  
*Cinnamomum camphora*, Jiangxi 12048  
taxonomy, new species 12048
- Schlechtendalia chinensis*  
biology, migration 10396  
*Buchnera*, symbionts 8220  
food plants, China 10396
- Schleichera oleosa*, *Leptocoris augur* 6258
- Schoenocaulon officinale*, extracts, effects 10345
- Schueziella fagicola*, *Contarinia fagi*, interactions 5809
- Schueziella quercicola*  
*Contarinia quercina*, interactions 5809  
Germany 5809  
taxonomy, new species 5809
- Sciaphilus asperatus*  
biology, seasonal abundance 4571  
raspberries, Quebec 4571
- Sciara*  
mushrooms 6839  
pathogens 6839
- Sciara coprophila* (see *Bradysia coprophila*)
- Sciaridae**  
cereals, Denmark 2409  
distribution, Czech Republic 11370  
ecology  
population dynamics 3680  
seasonal abundance 2409  
Guizhou 5792  
mushrooms  
damage 3680  
India 3680  
predators 11458  
taxonomy 3737, 5792, 11370
- Scilla*, odours, effects, *Atta sexdens* 409
- Sciobius horni*, asparagus, South Africa 5502
- Sciomyzidae**, distribution, Slovakia 10322
- Sciothrips cardamomi**  
*Alpinia purpurata* 10996  
cardamoms, Karnataka 7988-7989  
control 10996  
chemical control 7988-7989
- Scirpophaga**  
control, chemical control 8813  
rice  
Pakistan 6489  
resistance 6489  
sugarcane, Uttar Pradesh 8813
- Scirpophaga excerptalis**  
biological control agents, evaluation 2222  
control  
chemical control 1616, 3591, 4639  
integrated control 4639  
fertilizers, effects 9921  
parasitoids 2222  
sugarcane  
Bihar 6718, 9921  
Gujarat 3591  
Haryana 1616  
India 4639  
Indian Punjab 8815  
Tamil Nadu 2222  
yield losses 8815
- Scirpophaga incertulas**  
*Bacillus thuringiensis*, toxins, toxicity 11498  
biology, life cycle 6499  
control  
biological control 4441  
chemical control 5436, 6480, 7491, 9722  
ecology 7700  
distribution 10741  
population dynamics 10736  
monitoring, traps 1453  
natural enemies 10728  
parasitoids 4441, 5441  
rice 6499  
Assam 4441, 10741  
Bangladesh 7700  
China 7491, 10728  
Guangdong 10736  
Haryana 5436  
Indonesia 5441
- Scirpophaga incertulas** cont.  
rice cont.  
Karnataka 1453, 10735  
Meghalaya 6480  
Orissa 9722  
Philippines 3457, 6484  
resistance 6484, 10735  
yield losses 3457, 9730  
Zhejiang 9730
- Scirpophaga neogilviberbis**, rice, Pakistan 2468
- Scirpophaga nivella**  
control, chemical control 6725  
sugarcane  
Indonesia 6724  
Pakistan 6725  
resistance 6724
- Scirtidae**, distribution, Nicaragua 3112
- Scirtothrips aurantii**  
Citrus, Southern Africa 1567  
predators 1567
- Scirtothrips citri**  
Citrus, California 8787  
control, integrated control 8787
- Scirtothrips dorsalis**  
Andhra Pradesh 7550  
biology 11907  
*Capsicum annuum*, Gujarat 9818  
control, chemical control 9818, 11907  
insecticides, resistance 7550  
mangoes, West Bengal 5558  
monitoring, traps 2613  
pomegranates, Gujarat 11907  
predators 1620  
tea  
China 7883  
Japan 2613  
West Bengal 5593
- Scolia**, taxonomy 1834
- Scolia alutis**, taxonomy, synonyms, of *S. hirta* 1834
- Scolia hirta**, taxonomy, synonyms, *S. alutis* 1834
- Scolopendra cingulata**, Algeria 9361
- Scolopendra viridis**  
biology, behaviour 6158  
prey, insects 6158
- Scolothrips takahashii**  
ecology, population dynamics 2576, 5541  
grapes, habitats 5541  
pesticides, effects 2576  
prey  
*Oligota kashmirica benefica* 613  
*Tetranychus* 2576  
*Tetranychus kanzawai* 5541  
watermelons, fields, Honshu 2576
- Scolytidae**  
control, chemical control 10051  
distribution, Norway 1692  
entomopathogens, interactions, books 5778  
*Eucalyptus*, Espirito Santo 3637  
Florida 4043  
Germany 1650  
*Lindera triloba*, Japan 8847  
monitoring, traps 1650, 3637  
Pacific Islands 1810  
Pinopsida 5778  
*Pinus sylvestris*, Norway 1692  
plant pathogenic fungi, interactions 8847  
plant pathogens, transmission 6765  
taxonomy 1810  
*Ulmus laevis*  
Italy 8937  
resistance 8937  
wood 10051
- Scolytoplatypus mikado**  
interactions, fungi 9977  
*Lindera triloba*, wood, Honshu 9977  
Scolytidae, interactions 8847
- Scolytus fagi**  
*Celtis tenuifolia*, Ontario 818  
distribution, Canada 818
- Scolytus intricatus**  
predators 8875  
*Quercus robur*, Netherlands 8875
- Scolytus laevis**  
biology, environmental factors 747  
plant pathogens 747  
*Ulmus glabra*, Norway 747
- Scolytus multistriatus**  
biology 746  
control 746  
plant pathogens, transmission 8883  
*Ulmus*, UK 8883  
*Ulmus minor*, Uzbekistan 746
- Scolytus muticus**, *Celtis tenuifolia*, Ontario 818
- Scolytus orientalis** (see *S. multistriatus*)
- Scolytus pygmaeus**  
biology, environmental factors 9517  
Italy 9517  
plant pathogens, transmission 9517
- Scolytus rugolus**  
biology 1548  
control, chemical control 1548  
peaches, Italy 1548
- Scolytus scolytus**  
plant pathogens, transmission 8883  
*Ulmus*, UK 8883
- Scolytus ventralis**  
*Abies concolor*  
California 777  
susceptibility 777
- Scopolia japonica**, *Epilachna yasutomii*, interactions 4778
- Scotia segetum** (see *Agrotis segetum*)
- Scotogramma trifolii** (see *Discestra trifolii*)
- Scots pine** (see *Pinus sylvestris*)
- Scrautiidae**, Nicaragua 10317
- Scrobipalopsis solanivora**  
insecticides, resistance 602  
potatoes, Costa Rica 601
- Scrobipalpula absoluta**  
biology, behaviour 8735  
control 4530  
chemical control 2535  
integrated control 7784  
insecticides, effects 10822  
monitoring, traps 4531  
tomatoes 8735  
damage 4529  
Minas Gerais 4530  
Paraguay 10822  
resistance 3524, 7787  
Sao Paulo 2535, 4531, 8733  
Venezuela 7784
- Scrophulariaceae**  
*Occidryas editha*, America 11140  
*Phthorimaea operculella* 4487
- Scrub**, Coleoptera, Anhui 10290
- Scudderella furcata**, Citrus, California 8787
- Scutelleridae**, Nicaragua 10316
- Scutellista cynea**, control, *Saissetia oleae*, olives 6709
- Scutigerella immaculata**  
control, chemical control 11954  
sugarbeet, Netherlands 11954
- Scydmaenidae**, Papua New Guinea 1821
- Scymnus**  
ecology, population dynamics 4506  
insecticides, effects 5414  
kale, fields, Minas Gerais 4506  
maize, fields, Egypt 5414  
prey  
*Ceratovacuna lanigera* 2606  
*Spodoptera exigua* 5414  
sugarcane, fields, Taiwan 2606
- Scymnus castaneus**  
control, *Aphis punicae*, pomegranates 9903  
pomegranates, orchards, Karnataka 9903
- Scymnus fagus** (see *Rhyzobius fagus*)
- Scymnus fenderi**  
barley, fields, Washington 5412  
prey, *Diuraphis noxia* 5412
- Scymnus frontalis**  
biology, behaviour 6176  
prey, *Diuraphis noxia* 6176
- Scymnus interruptus**  
cotton, fields, Egypt 1633  
*Juniperus*, habitats, Italy 782  
pesticides, effects 1633  
prey, *Planococcus vovae* 782
- Scymnus latemaculatus**  
control, *Aphis punicae*, pomegranates 9903  
pomegranates, orchards, Karnataka 9903
- Scymnus rubromaculatus**  
crops, fields, Yugoslavia 6166  
ecology 6166



- Scymnus suturalis**  
prey, *Adelges tsugae* 12018  
*Tsuga canadensis*, forests, Connecticut 12018
- Scymnus syriacus**  
cotton, fields, Egypt 1633  
pesticides, effects 1633
- Scyphophorus acupunctatus**, *Yucca elephantipes*, Florida 2718
- Scythropus yasumatsui** (see *Pachyrhinus yasumatsui*)
- Sea water**, insecticides, residues 3380
- Seafoods**, insecticides, residues 10330
- Seals**  
pesticides  
effects 3373  
residues 472
- Secale**, *Aceria tulipae*, resistance 1421
- Secale cereale** (see Rye)
- Secondary metabolites**, pest control, reviews 11565
- Sediment**  
insecticides  
movement 8585  
residues 484, 1345, 3377, 4336, 5368, 7613, 8580, 8595, 10648, 10653-10655  
decontamination 488  
organochlorine compounds, determination 2383  
pesticides, residues 493, 2382, 3400, 3402, 4333, 8589-8591, 9635, 11664
- Sedum**, pest control 6921
- Seeds**  
Formicidae, interactions 3061  
pest control 8028
- Segestriidae**, checklists, Uruguay 8321
- Sehirus trigutulus**  
biology, behaviour 5044  
*Lamium*, Hokkaido 5044
- Seiulus finlandicus**  
taxonomy 8056  
synonyms, *Typhlodromus pruni* 8056
- Seiulus tiliarum**  
control, *Phytoptus avellanae*, hazelnuts 4613  
hazelnuts, orchards, Italy 4613
- Seladerma simplex**  
distribution, Netherlands 2730  
hosts, *Phytomyza krygeri* 2730
- Selenaspis articulatus**  
*Citrus*, Sao Paulo 2580  
control, biological control 7488  
natural enemies 2580  
parasitoids 7283  
Peru 7488  
Uganda 7283
- Selenastrum capricornutum**, insecticides, effects 8533, 10614
- Selenisa sueroides**, irrigation systems, damage 2100
- Selenopodidae**, checklists, Uruguay 8321
- Selinum tenuifolium**, *Dysaphis selinum*, India 15
- Semanotus japonicus**  
biology, behaviour 2714  
*Cryptomeria japonica*, Japan 2714
- Semiadalia undecimnotata**, ecology 6166
- Semidalis aleyrodiformis**, Slovakia 11363
- Seminars** (see Conferences)
- Semiochemicals**  
*Alloxysta victrix* 1403  
attractants  
*Bactrocera oleae* 6710  
*Cotesia* 6582  
*Diabrotica* 9705  
effects, *Aphis fabae* 7081  
insects 3982  
mixtures  
attractants  
*Dendroctonus brevicornis* 7936  
Lepidoptera 9703  
*Schistocerca gregaria* 11300
- Semolina**, *Ephesia kuehniella* 2771
- Senecio**, *Neolema cordata* 917
- Senecio jacobaea**  
control, biological control 1982, 3691  
Gastropoda, UK 11009  
*Longitarsus jacobaeae*, Oregon 1756
- Senecio jacobaea** cont.  
natural enemies  
Netherlands 5723  
Oregon 3691  
UK 11014  
Victoria 1982
- Senecio vulgaris**, control, biological control 11035
- Senegal**  
Acrididae 6358  
Cerambycidae 2030  
crops, *Schistocerca gregaria* 8468  
forest trees, pollinators 6772  
insect pests 10484-10485, 10488  
insects 10486  
*Plectorhynchus mediterraneus*, commodities, Coleoptera 8991  
Thysanoptera 8094
- Senna birostris** var. *hookeriana*, *Sennius terani*, Argentina 5821
- Sennius terani**  
*Senna birostris*, Argentina 5821  
taxonomy, new species 5821
- Sepsidae**, evolution 10121
- Septoria nodorum** (see *Leptosphaeria nodorum*)
- Sitobion avenae*, interactions 1429
- Sequoia**, *Phloeosinus*, Austria 10977
- Sequoia sempervirens**  
habitats, soil arthropods, California 10930  
wood, *Coptotermes formosanus*, resistance 1764
- Sequoyitol**, attractants, *Battus philenor* 10010
- Serangium parcesetosum**  
control, *Aleurothrixus floccosus*, *Citrus* 3555  
prey, Aleyrodidae 1230  
rearing techniques 1230
- Serbia**, *Trechus* 8310
- Serenoa repens**, *Litoprosopus futilis*, Florida 3674
- Seres**  
Africa 2864  
taxonomy 2864
- Seres armipes**  
morphology 2864  
taxonomy, synonyms, of *S. longicephalus* 2864
- Seres longicephalus**, taxonomy, synonyms, *S. armipes* 2864
- Sericothrips variabilis**  
control, chemical control 8702  
cowpeas, Arkansas 8702
- Serine**, attractants, *Erioborus terebrans* 3231
- Serotonin**  
effects, *Locusta migratoria* 5890  
insecticides, interactions 5283
- Serpula lacrymans**, effects, *Coptotermes formosanus* 11463
- Serratia**, hosts, *Plautia stali* 10423
- Serratia entomophila**  
genetics  
mutations 2167  
strains, identification 9462  
hosts, *Costelytra zealandica* 2167, 7471, 9506  
*Metarhizium anisopliae*, interactions 7471
- Serratia marcescens**, hosts, *Manduca sexta* 9513
- Serratia proteamaculans**, hosts, *Costelytra zealandica* 9506
- Serratula tinctoria**  
Tephritidae  
galls 8985  
UK 8985
- Serum replacements**, effects, Lepidoptera, cell lines 4075
- Serviformica** (see *Formica*)
- Sesame** (*Sesamum indicum*)  
*Antigastra catalaunalis*  
Haryana 6716  
Orissa 7874  
Uttar Pradesh 11942  
yield losses 6716  
*Circulifer haematodeps*, Turkey 10902  
*Elasmolomus sordidus* 8615  
extracts  
attractants, *Sitophilus zeamais* 10054  
effects, *Helicoverpa armigera* 8501
- Sesame** cont.  
insect pests  
Burkina Faso 8812  
varietal susceptibility 8812  
*Myzus persicae* 5477  
*Poekilocerus pictus* 2403
- Sesame oil**  
control, with fenvalerate, Lepidoptera, cotton 8836  
effects, *Callosobruchus chinensis* 1765
- Sesamia calamistis**  
biology  
development 8618  
life cycle 5423  
control, cultural control 2442  
diets 8618  
ecology, population dynamics 2442, 10714  
food plants 8618  
maize 5423  
Benin 10714  
millets, Niger 2442  
parasitoids 10714
- Sesamia cretica**  
Egypt 1272  
fertilizers, effects 3441  
maize  
Egypt 3441, 7442  
resistance 3441  
pathogens 7442  
transmission, plant pathogens 1272
- Sesamia grisescens**  
control, integrated control 4637  
sugarcane, Papua New Guinea 4637
- Sesamia inferens**  
parasitoids 2222  
sugarcane, Uttar Pradesh 5586
- Sesamia nonagrioides**  
biology  
behaviour 3977  
environmental factors 2427  
control  
biological control 6173  
chemical control 9700  
Italy 6173  
maize 9700  
France 3977  
resistance 9707  
Spain 2427, 9707  
pheromones 7634  
physiology, cold tolerance 3977
- Sesamum**, *Antigastra catalaunalis*, Uttar Pradesh 6717
- Sesamum indicum** (see Sesame)
- Sesbania aculeata**, insects, Delhi 10042
- Sesbania cannabina**, *Helicoverpa punctigera*, Australia 6418
- Sesbania pachycarpa**  
biological control agents, evaluation 2221  
*Mesoplatys cincta*, Cameroon 2221
- Sesbania punicea**, *Trichapion lativentris*, South Africa 6855
- Seseli indicum**  
oils  
effects, *Callosobruchus chinensis* 3675  
repellents, *Callosobruchus chinensis* 1732
- Sesia molybdoceps**, food plants, Honshu 5633
- Sesia siningensis**  
biology 11992  
parasitoids 11992  
*Populus cathayana*, Qinghai 11992
- Sesiidae**  
Colorado 515  
control, biological control 2675  
pheromones 515
- Sesquiterpenes**, attractants, *Ceratitis capitata* 4378
- Setaria verticillata**, *Listronotus bonariensis*, resistance 6852
- Setothosea asigna**  
oil palms, Indonesia 7866  
pathogens 7866
- Seudenol**  
attractants  
*Dendroctonus pseudotsugae* 9540  
*Thanasimus undatulus* 9540
- Sevidol** (see Carbaryl, with lindane)
- Sevin** (see Carbaryl)



**Sewage sludge**

- effects, Araneae 5162
- insecticides, residues 4334
- pesticides, residues 6381

**Sex pheromones**

- Acarus immobilis* 974
- Acrobasis vaccinii* 7061
- Agriotes tauricus* 521
- Agrotis ipsilon* 5070
- Agrotis segetum* 524, 9657, 11694
- Anaglyptus subfasciatus* 4368
- Anastrepha suspensa* 5547
- Anomala* 4546, 4935
- Anomala cuprea* 10184
- Anomala octiescostata* 1891
- Aphidius colemani* 4401
- Aphis fabae* 7081
- Arctiidae 4928
- Argyrotaenia ljungiana* 11853
- Blitopertha orientalis* 5376, 6815, 7629
- Bombyx mori* 2933, 3304, 9574
- Bucculatrix thurberiella* 4663
- Callosobruchus* 5837
- Callosobruchus chinensis* 4944
- Callosobruchus maculatus* 7057
- Celypha pseudolarixicola* 10675
- Ceratitis capitata* 4363, 9653, 11299
- Chilo partellus* 5273, 5920
- Choristoneura fumiferana* 9656
- Cnaphalocrocis medinalis* 7631
- Cnephiasia jactatana* 675
- Conogethes punctiferalis* 8139
- Conophthorus coniperda* 9981
- Conophthorus resinosae* 9982
- Cosmopolites sordidus* 10167
- Cryptoblabes gnidiella* 6669
- Cryptomyzus* 5536
- Ctenopseustis obliquana* 527
- Cydia nigricana* 4480
- Cydia pomonella* 7626
- Cydia splendana* 8799
- Cylas formicarius elegantulus* 8716
- Diprion pini* 10188
- Drosophila* 3900
- Drosophila buzzatii* 2935
- Drosophila melanogaster* 5885, 8605
- Ephestia kuehniella* 11046
- Epiphyas postvittana* 5377
- Epirrita autumnata* 9181
- Eriocrania sparmannella* 11686
- Eucosma notanthes* 3568
- Euproctis pseudoconspersa* 3832, 10677
- Eurygaster integriceps* 4374
- Euschistus* 8602
- Euschistus obscurus* 1398-1399
- Exomala orientalis* 1892
- Formica lugubris* 973
- Geometridae 4360
- Graphania* 402
- Helicoverpa* 969
- Helicoverpa armigera* 4357, 5464
- biosynthesis 8140
- Helicoverpa assulta* 8137, 9182
- Helicoverpa zea* 9172
- Heliothis maritima* 520
- Heliothis virescens* 9957
- Heliothis virescens* x *H. subflexa* 9173
- Helopeltis antonii* 7633
- Heterocera 970
- Hylotrupes bajulus* 5833, 9174
- Hyphantria cunea* 11703
- inhibitors, *Thaumetopoea pityocampa* 10173
- insect pests 2050
- Ips avulsus* 1694
- Ips calligraphus calligraphus* 1694
- Ips grandicollis* 1694
- Ips paraconfusus* 1694
- Ips pini* 4377, 4729
- Keiferia lycopersicella* 11690
- Lambdina ferdinaria* 4379
- Lambdina fiscellaria* 1890
- Lepidoptera* 518, 991, 1100, 1907, 2389, 5610, 9703, 11687, 11692
- reviews 7056
- Leucinodes orbonalis* 3144
- Lobesia botrana* 4575, 10867
- Longitarsus jacobaeae* 1756
- Lygus lineolaris* 7517
- Lymantria dispar* 9658
- Macrocentrus grandii* 7063

**Sex pheromones cont.**

- Maladera matrida* 4634
- Mamestra brassicae*, analogues 4359
- Manduca sexta* 7076, 9176
- biosynthesis 8141
- Matsucoccus* 7630
- Matsucoccus feytaudi* 1395, 5673
- Matsucoccus josephi* 11695, 12009
- Matsucoccus thunbergianae* 5672, 12014
- Merophyas leucaniana* 675
- Migdolus fryanus* 4358
- Neodiprion sertifer* 4727, 11691
- Nezara viridula* 7059, 9177
- Noctuidae 5891, 7634, 11689
- Notodonta* 10673
- Oiketicus kirbyi* 7058
- Ostrinia furnacalis* 7201
- Ostrinia nubilalis* 517, 4375, 7065, 10168
- Pammene fasciana* 6703
- Papilionoidea 1091
- Pectinophora gossypiella* 3619
- Pentatomidae 975
- Phthorimaea operculella* 3834
- Planotortrix excessana* 527
- Plodia interpunctella* 11693
- Pristhesancus plagipennis* 7062
- Pyrilidae 3769
- Reticulitermes santonensis* 766
- Samia cynthia ricini* 5196
- Schistocerca gregaria* 6044
- Sesiidae 515
- Sitobion fragariae* 1394
- Spodoptera* 2428, 9068, 10678
- Spodoptera littoralis* 3831, 3833, 9191, 10169
- Spodoptera litura* 6406
- Stigmella malella* 9652
- Synanthedon tipuliformis* 2565
- Tortricidae 968, 9654, 9875, 10849, 11280
- Trichoplusia ni* 3824, 7891
- Trogoderma granarium* 1396
- Trogoderma inclusum* 6290
- Tyria jacobaeae* 4941
- Seychelles**, mangoes, insecticide residues 5347
- Shachongshuang** (see Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt)
- Shallots** (*Allium ascalonicum*) pest control, Indonesia 9794
- Sheep**, insecticides, effects 458
- Shellfish**, pesticides, residues 4300
- Shelterbelts**
  - insect pests, Saskatchewan 9023
  - Lepidosaphes salicina*, Liaoning 2654
- Shepherdia canadensis**, *Choristoneura rosaceana* 647
- Sherpa Plus** (see Cypermethrin)
- Shivaphis celti**, *Epilachna admirabilis*, interactions 1744
- Shizocosa**, fields, habitats, North America 5154
- Shrimps**, pesticides, residues 11609
- Shrubs**, *Microctonus alpinus*, New Zealand 906
- Sialis lutaria**, ecology, environmental factors 10280
- Sibatanoiozephyrus**
  - Asia 5648
  - Fagus* 5648
  - taxonomy 5648
- Sibatanoiozephyrus kuafui**
  - Taiwan 5648
  - taxonomy, new species 5648
- Siberia**
  - Apion hookeri* 820
  - Gomphocerus sibiricus* 1185
  - Hypselistes* 4825
  - Larix*, *Dendrolimus superans* 780
  - Linyphiidae 12102
- Sicily**
  - Eucalyptus*
    - habitats, natural enemies 5639
    - Phoracantha semipunctata*, natural enemies 5639
  - Sicus*, taxonomy 3755
  - Sicus ferrugineus*, distribution, Japan 7995
- Sida acuta**
  - biological control agents, evaluation 8980

**Sida acuta cont.**

- control, biological control 2758
- insects, Northern Territory 2758
- Sida rhombifolia**
  - biological control agents, evaluation 8980
  - control, biological control 2758
  - insects, Northern Territory 2758
- Sida acuta**, extracts, effects, Coleoptera 4801
- Sidemia depravata** (see *Spodoptera depravata*)
- Siegesbeckia orientalis**
  - extracts
    - effects, *Crocidolomia binotalis* 8960
    - insecticidal properties 8960
- Sierra Leone**
  - Anagyrus mangicola* 5164
  - Gyranusoida tebygi* 5164
  - mangoes, insecticide residues 5347
  - Nymphalidae 1137, 4034
  - sweet potatoes, pest control 1499
- Sigalphus**, taxonomy 1843
- Sigmavirus**
  - genetics, genes, sequences 11486
  - hosts, *Drosophila melanogaster* 11486
- Sigmodon hispidus**, insecticides, residues 8540
- Silene acaulis**
  - Diptera
    - Norway 5705
    - pollination 5705
- Silene dioica**
  - Diptera
    - pollination 6861
    - Scandinavia 6861
- Silene pratensis**
  - insects
    - pollination 6848
    - Virginia 6848
- Siler semiglaucus**, distribution, China 7293
- Silica**, effects, *Sesamia calamistis* 5423
- Silkworms**
  - mulberries, Shandong 3239
  - pathogens 3253
  - physiology, hormones 2149
  - pupae, insects as food 4131
- Silpha obscura**, distribution, UK 8288
- Silphidae**
  - pollutants, effects 7511
  - prey, *Antheraea yamamai* 8245
  - Slovakia 7511
- Silphium integrifolium var. laeve**
  - Antistropheus silphii*
    - galls 7718
    - Kansas 7718
- Siluriformes**, insecticides, effects 2283
- Silver fir** (see *Abies alba*)
- Silybium marianum**, extracts, toxicity, insect pests 2733
- Simplocaria semistriata**
  - Belgium 2154
  - biology, phenology 6662
  - monitoring, traps 6662
  - pathogens 2154
  - raspberries, Quebec 6662
- Simia**, Mexico 6840
- Simyra dentinosa**
  - biology 1757
  - ecology 1757
  - Euphorbia*, Yugoslavia 1757
- Simyra henrici**
  - Bromus inermis*, Indiana 2475
  - parasitoids 2475
- Sinapis**, Syrphidae, Switzerland 2759
- Sinapis alba**
  - Phyllotreta cruciferae*
    - Manitoba 4390
    - resistance 2402, 4390
- Sinea confusa**
  - cotton, fields, Arizona 712
  - prey, insect pests 712
- Sinea diadema**, biology, behaviour 5060
- Sinella**, taxonomy 13
- Singapore**
  - Blastophaga* 10103
  - forest trees, *Diplosocus* 14
  - vegetables, commodities, insecticide residues 4806
- Sinigrin**
  - antifeedants, Noctuidae 5926, 6397
  - effects, Noctuidae 5925



***Sitophilus zeamais***  
attractants, effects 1392  
biological control agents, evaluation 6883  
biology, environmental factors 6876  
cereal grains, South Carolina 4809  
control  
    chemical control 841, 6901, 10039,  
        12069  
    physical control 6874  
fungi, interactions 6885  
genetics, insecticide resistance 1329  
insecticides  
    effects 2784  
    resistance 1329, 8515  
    toxicity 4705



**Sitophilus zeamais** cont.

- maize
  - commodities 2784, 3676, 6186, 6876, 6883, 6885, 7932, 10039
  - damage 4800, 5749
  - Georgia 6874
  - Mexico 4800
  - resistance 6900
  - varietal susceptibility 5745
  - Zimbabwe 841

- Parana 1329
- parasitoids 6186
- pathogens 2781
- plant extracts
  - attractants 10054
  - effects 3676
  - toxicity 6864
- soyabeans, commodities 12069
- stored products 4795
- wheat, commodities 6864, 6901

**Sitotroga**

- biology, life cycle 8303
- UK 8303

**Sitotroga cerealella**

- biology 9017
- carbon dioxide, effects 5757
- control
  - chemical control 6490, 11049
  - integrated control 9007
- diets 9017
- ecology, energy relations 10043
- maize
  - commodities 2783
  - damage 4800
  - Mexico 4800
  - resistance 9017
  - resistance 8653
- parasitoids 1215, 2783, 4522, 4850, 6184, 8280, 10790
- plant extracts, toxicity 8549
- predators 3133, 4113
- rice
  - commodities 10043
  - resistance 6888, 10055
  - India 6490
  - resistance 6501
- tomatoes, Venezuela 4522
- wheat, commodities, Pakistan 9007, 11049

**Skeletodes**

- Queensland 11085
- taxonomy 11085

**Skeletodes lineigera**, synonyms, of *S. tetrops* 11085**Skeletodes tetrops**, synonyms, *S. lineigera* 11085**Skin**, insecticides, metabolism 8523**Slaked lime**, effects, entomopathogens 9468**Slalom** (see Bifenthrin, with dicofol)**Slash pine** (see *Pinus elliottii*)**Slaterobius**

- ecology 3659
- taxonomy 3659

**Slaterobius quadristriatus**

- Pinus banksiana*, Michigan 3659
- Pinus rigida*, New Jersey 3659

**Slovakia**

- Acer campestre*, Curculionidae 3648
- Araneae 3099
- birds, insecticide residues 4279
- cabbages, *Delia* 10804
- Coenonympha hero* 3077
- Coleoptera 3075, 7281, 7511
- Fagaceae, Lepidoptera 11987
- Fagus*, Lepidoptera 3642
- forests
  - Acari 3998
  - Curculionidae 3076
- Gastropoda 7379
- habitats, arthropods 4021
- Neuroptera 7196, 11363
- orchards, arthropods 7802
- Ostrinia nubilalis* 517
- Phorbia* 5788
- Phytoseiidae 7279
- Picea abies*, Lepidoptera 12015
- Sciomyzidae 10322
- Sitona sulcifrons* 5012
- soil, Acari 3998
- Sophora japonica*, seeds, *Bruchophagus* *sophorae* 1709

**Slovakia** cont.

- Syrphidae 3105
- Tetranychidae 7280

**Slovenia**

- Acrididae 3176
- forest trees, insect pests 8863
- forests, *Formica* 8851
- insect pests 5083
- Picea abies*, *Ips typographus* 6795
- Thysanoptera 3127

**Slugs** (see also Gastropoda)

- biology, behaviour 4405
- cereals, Germany 9671
- control 3482
  - biological control 4405, 10467
  - chemical control 4133
- ecology, population dynamics 6914
- lucerne, damage 3482
- ornamental woody plants, USA 6928
- pathogens 4405
- tillage, effects 9671
- wheat, UK 546, 4405

**Small fruits**, pest control, Washington 3541**Small mammals**, pesticides, effects 1376**Smarididae**, taxonomy 8066**Smerinthus**

- evolution 1853
- morphology 1853

**Smicronyx fulvus**

- ecology, distribution 4621, 8804
- sampling 8804
- sunflowers 4621
  - damage 8804
  - North Dakota 8804

**Smilacina**, *Thrips crawfordi* 919**Smilax**, *Thrips crawfordi* 919**Sminthurinus elegans**, soil, Egypt 47**Sminthurus viridis**

- Brassica*, New Zealand 6578
- control
  - biological control 11754
  - chemical control 6578, 11706
- crops, Australia 11706
- fodder plants, Victoria 11757
- pastures
  - Australia 11706
  - Western Australia 11756
  - yield losses 11756
- predators 11754
- Trifolium*
  - New Zealand 7725
  - resistance 7725

**Smynthuroides betae**

- ecology, interspecific competition 8893
- Pistacia atlantica*
  - galls 8893
  - Israel 8893

**Snails** (see also Gastropoda)

- control, biological control 10467
- Dacryodes excelsa*, forests, Puerto Rico 1239
- ecology, distribution 1239
- ectoparasites 933
- Honshu 348
- Orchidaceae, Ryukyu Archipelago 7977
- ornamental plants, British Virgin Islands 6806
- ornamental woody plants, USA 6928
- predators 348

**Snakes**, venoms, toxicity, *Helicoverpa zea* 11233**Snap beans** (see *Phaseolus vulgaris*)**Soaps**

- control
  - Aleurolobus barodensis* 1614
  - Bemisia tabaci*, *Capsicum* 10830
  - insect pests, *Cucurbita pepo* 11835
- effects
  - Bemisia argentifolii* 6606
  - assays 11655
  - beneficial organisms 2335
  - Neoseiulus cucumeris* 11640
  - nontarget effects, predatory mites 9839
- toxicity
  - Bemisia tabaci* 11574
  - Myzus persicae* 7551

**Social insects**

- biology
  - behaviour 6041, 7217
  - models 11331
- eusociality, evolution 8097

**Social insects** cont.

- evolution 2867
- parasites, reviews 11355
- Sodium borate**, control, *Coptotermes formosanus*, *Pseudotsuga menziesii*, wood 8023
- Sodium chloride**, interactions, insecticides 1472
- Sodium dodecyl sulfate**, control, *Pomacea canaliculata*, cereals 3469
- Sodium hydroxide**, control, nuclear polyhedrosis viruses 9488
- Sodium N-methylidithiocarbamate**, control, *Dendroctonus frontalis*, *Pinus taeda* 9985
- Sogatella furcifera**
  - biology
    - behaviour 565
    - environmental factors 9731
    - migration 7228
  - control, chemical control 6480, 7713, 9722, 11748
  - cytology 10199
  - ecology
    - distribution 9718
    - mortality 7697
    - population dynamics 2449, 3090, 3468, 7713, 8660
  - growth regulators, effects 9573
  - Guangdong 3090
  - insecticides
    - resistance 1001, 4437
    - toxicity 7541
  - Korea Republic 7228
  - millets, resistance 565
  - monitoring, traps 6494
  - parasitoids 7697, 10139
  - plant extracts, antifeedants 565
  - predators 8664, 9416
  - rice 7708, 9573, 9731
    - China 2447
    - damage 4445-4446, 10731
    - Honshu 4437
    - India 4440
    - Japan 3460, 4446, 6494
    - Jiangsu 3468
    - Korea Republic 11748
    - Kyushu 4445, 8660
    - Meghalaya 6480
    - Orissa 9722
    - Philippines 7713, 8664
    - resistance 574, 1452, 2449-2451, 7697, 9719
    - Uttar Pradesh 9718
    - Vietnam 7697
    - yield losses 2447
  - sampling 4440
  - symbionts 9477
- Sogatodes orizicola** (see *Tagosodes orizicolus*)
- Soil**
  - Acari
    - Egypt 676
    - Slovakia 3998
  - acaricides
    - movement 8579
    - residues 10639, 10645
  - agricultural chemicals, effects 3734
  - arthropod pests, control, chemical control 3395
  - arthropods, Nigeria 5354
  - Bacillus thuringiensis*
    - Sweden 10404
    - toxins, persistence 7456
  - Collembola, Egypt 47
  - Cryptopygus bipunctatus*, Michigan 5818
  - Cryptostigmata, UK 3069
  - effects, *Drepanotermes tamminensis* 7370
  - enzymes, insecticides, effects 528
  - Formicidae
    - interactions 9415
    - Western Australia 2093
  - growth regulators
    - movement 5359
    - residues 4298, 4331, 5309
  - humic acids, insecticides, interactions 2364
  - insecticides
    - adsorption 2366-2367, 10651
    - biodegradation 9637



**Soil cont.**  
insecticides cont.  
degradation 485, 497, 513, 1380-1381, 1442, 2372, 2377, 3399, 3404, 7619, 8593, 9641, 10646, 11676  
effects 2362, 5360, 6388, 6390, 10640, 11659  
metabolism 491  
mineralization 4338  
movement 504, 4332, 5364  
residues 567, 1608, 2047, 2058, 2066, 2266, 2359, 2371, 2376, 2386, 3398, 4342, 6204, 6480, 7308, 8345, 8594, 9644-9646, 10514, 10637, 10648, 10815, 10973, 11671, 12038  
analysis 3396  
detection 11678  
determination 6498  
models 4450  
sorption 9643  
Isoptera, Botswana 338  
mercury, effects, books 10077  
*Messor capensis*, South Africa 347  
microorganisms, insecticides, effects 503, 2363, 6382, 9633  
*Odontotermes*, Botswana 337  
organochlorine compounds, residues 2355  
pesticides  
degradation 498, 511, 1375, 5365  
effects 10647  
movement 413  
residues 487, 495, 512, 2385, 5332, 5366-5367, 10664  
extraction 9410  
monitoring 255  
volatilization 9648  
pollutants, detection 2057  
Thysanoptera, North Carolina 9279

**Soil arthropods**  
bioassays 5118  
biology 1971  
books 2821  
life history 3034  
ecology 1138, 1971, 9572, 10930  
books 2821  
population dynamics 9346  
fauna 1973  
forests 9346  
fungi, interactions 10292  
herbicides, effects 5354  
insecticides, effects 9572  
insecticidesinsecticides, effects 3395  
*Pinus koraiensis*, Korea Republic 7946  
reviews 1970  
*Sequoia sempervirens*, habitats, California 10930  
UK 9572

**Soil bacteria**, insecticides, degradation 10656

**Soil compaction**, effects, *Diabrotica virgifera* 4419

**Soil enzymes**, pesticides, effects, reviews 9639

**Soil fauna**  
ecology 1124  
Georgia 3395  
Germany 1124  
pesticides  
nontarget effects, reviews 10657  
residues 5352  
transgenic plants, effects 9285  
West Bengal 9376

**Soil fertility**  
Cryptostigmata, biological indicators 1972  
effects, *Ophiomyia* 3499

**Soil flora**  
insecticides  
degradation 4297  
effects 489, 6374, 10598, 11650

**Soil fungi**, insecticides, effects 10640, 11650

**Soil invertebrates**  
heavy metals, effects 10077  
pesticides, effects, books 3739

**Soil microorganisms**, insecticides, degradation 11631

**Soil solarization**, control, Scarabaeidae, strawberries 9858

**Soil types**, pesticides, movement 4337

**Soil water**, effects, *Diabrotica virgifera* 9701

**Solanaceae**  
*Bemisia tabaci* 2530  
*Myzus persicae*, Venezuela 4383  
*Phthorimaea operculella* 4487

**Solanum**  
insect pests, resistance 9778  
Lepidoptera, Russia 6821  
*Mechanitis lysimnia*, Sao Paulo 1093

*Solanum angustifolium*, *Leptinotarsa decemlineata* 4494

*Solanum auriculatum*, Pentatomidae, Argentina 603

*Solanum berthaultii*  
extracts, antifeedants, *Leptinotarsa decemlineata* 605  
*Leptinotarsa decemlineata*, resistance 5474, 5484, 6554

*Solanum bonariense*, Pentatomidae, Argentina 603

*Solanum capense*, insect pests, Southern Africa 8966

*Solanum carolinense*, natural enemies, Virginia 3059

*Solanum chacoense*, *Phthorimaea operculella*, resistance 7761

*Solanum ciliatum*, Pentatomidae, Argentina 603

*Solanum elaeagnifolium*  
biological control agents, evaluation 8982  
control, biological control 8976, 11029  
*Frumenta*  
galls 8982  
South Africa 8982  
habitats, parasitoids, South Africa 8982  
*Leptinotarsa*, South Africa 8976  
*Metritona elatior*, Uruguay 8002  
natural enemies, Uruguay 4782

*Solanum granulosoleprosum*, Pentatomidae, Argentina 603

*Solanum incanum*, insect pests, Southern Africa 8966

*Solanum integrifolium*, *Aphis gossypii* 5507

*Solanum mauritanium*, biological control agents, evaluation 11029

*Solanum melongena* (see Aubergines)

*Solanum nigrum*  
extracts, effects, Coleoptera 4801  
*Tetranychus okinawanus*, Ryukyu Archipelago 10107

*Solanum panduriforme*, insect pests, Southern Africa 8966

*Solanum paniculatum*, Pentatomidae, Argentina 603

*Solanum phureja*, *Premnotrypes vorax* 10784

*Solanum pinnatisectum*, *Phthorimaea operculella*, resistance 7761

*Solanum polytrichon*, *Phthorimaea operculella*, resistance 7761

*Solanum quitoense*, *Neoleucinodes elegantalis*, Colombia 3565

*Solanum sisymbriifolium*  
control, biological control 11029  
Pentatomidae, Argentina 603

*Solanum torvum*, *Spilostethus hospes*, India 8622

*Solanum tuberosum* (see Potatoes)

*Solanum tuberosum* subsp. *tuberosum*, *Phthorimaea operculella*, resistance 7761

*Solanum viarum*, *Leptinotarsa decemlineata*, Florida 11024

**Solar heating**, effects, *Beauveria bassiana* 7483

**Solar radiation**  
effects  
*Bacillus thuringiensis* 2192  
*Baculovirus heliothis* 4183

**Solenopsis**  
biology, behaviour 11412  
Brazil 11412  
ecology 7902  
forests, Espirito Santo 7902  
genetic markers, identification 8340  
parasitoids 11412  
pastures, Colombia 5457  
prey, *Aeneolamia* 5457

**Solenopsis geminata**  
biology  
behaviour 3191, 7892, 11408  
reproduction 5141  
cotton, habitats, India 7892  
forests, Costa Rica 3191  
parasitoids 3191  
*Pheidole radoszkowskii*, interactions 11408  
prey, *Anastrepha ludens* 8385  
repellents 4938  
sugarcane, plantations, Texas 693  
USA 5141

**Solenopsis invicta**  
Arkansas 3180  
biochemistry, sterols 9214  
biology  
behaviour 1990, 3189, 6113, 9295, 11407  
development 3807  
control, chemical control 3180, 6153  
diets 10264  
ecology  
behaviour, models 2072  
distribution 7222  
latitude 10272  
population dynamics 2095  
models 4028, 6113  
Florida 7222, 9295, 11407  
genetics  
DNA 8340  
reproduction 11278  
Georgia 11278  
parasitoids 9073, 11429  
pastures, Georgia 2095  
pathogens 1190, 9495  
*Pheidole dentata*, interactions 3189  
prey  
birds 6153  
*Litoprosopus futilis* 3674  
rearing techniques 11388  
Texas 1990, 2072, 6153  
USA 6113, 8340

*Solenopsis invicta* × *S. richteri*  
biology, reproduction 5141  
Mississippi 5141

*Solenopsis molesta*  
biology, behaviour 7972  
Illinois 7972

*Solenopsis richteri*  
biology, reproduction 5141  
genetics, DNA 8340  
Mississippi 5141  
parasitoids 9073  
USA 8340

*Solenopsis saevissima*  
parasitoids 8363  
Sao Paulo 8363

*Solenoxypys sauledai*  
ectoparasites 2715  
*Juniperus thurifera*, Spain 2715

**Solidago**  
*Dichomeris*, USA 12063  
*Eurosta solidaginis*, New York 3670  
*Thrips pseudosulciatus* 919

**Solidago altissima**  
*Dichomeris*, USA 12063  
*Eurosta solidaginis* 11023  
galls 8974  
Minnesota 8974  
Ontario 6844  
*Microrhopala vittata*, Ontario 4781  
*Ophraella* 1956  
*Uroleucon*, North Carolina 6067

*Solidago bicolor*, *Ophraella* 1956

*Solidago caesia*, *Dichomeris*, USA 12063

*Solidago canadensis* var. *scabra*, insects, Florida 2747

*Solidago fistulosa*, insects, Florida 2747

*Solidago gigantea*  
*Eurosta solidaginis*  
galls 8974  
Minnesota 8974  
insects, Florida 2747

*Solidago leavenworthii*, insects, Florida 2747

*Solidago missouriensis*  
*Trirhabda canadensis* 6843  
Minnesota 4770

*Solidago odora*, habitats, *Phymata americana*, New York 4779



*Solidago rugosa*, *Microrhopala vittata*,  
Ontario 4781

#### Solomon Islands

*Ficus*, *Kradibia* 10102  
food, insecticide residues 4789

#### Somaticus

insecticides, effects 4415  
maize, damage 4415  
planting depth, effects 4415

*Somaticus terricola*, asparagus, South Africa  
5502

*Somatodes*, taxonomy 29

*Somatodes misumenus*, taxonomy 29

*Somatodes sanctus*, taxonomy 29

#### Sonchus asper

*Aulacidea follioti*  
galls 3124  
UK 3124

*Sonchus oleraceus*, *Helicoverpa punctigera*,  
Australia 6418

#### Sonet

residues, potatoes 2500  
toxicity, rats 2500

#### Songs

*Achroia grisella* 7032  
Acrididae 9288  
*Chorthippus* 5123  
*Chrysoperla* 3975  
Cicadidae 8268  
*Drosophila* 3963  
*Drosophila melanogaster* 2993, 3902  
*Drosophila mettleri* 9386  
*Drosophila virilis* group 11304  
*Drosophila willistoni* group 11308  
*Hemideina ricta* 6053  
Homoptera 11318  
insects, reviews 3981  
*Ribautodelphax* 3979  
Tettigoniidae 988  
*Tibicen linnei* 5026

*Sophora flavescens*, extracts, effects,  
*Nilaparvata lugens* 5691

*Sophora flvaescens*, *Kytorhinus sharpianus*  
3925

#### Sophora japonica

Lepidoptera, Honshu 2687  
seeds

*Bruchophagus sophorae*  
damage 1709  
Slovakia 1709

#### Sophorhinus inperatus

biochemistry, enzymes 3819  
*Cola* 3819

#### Sorbic acid

effects  
Coleoptera 9558  
*Rhyzopertha dominica* 1769

*Sorbus*, Buprestidae, Germany 6749

#### Sorbus torminalis

insect pests  
damage 7908  
France 7908

#### Sorghum (Sorghum bicolor)

Acrididae, Tamil Nadu 6143  
*Aiolopus thalassinus tamulus*, Gujarat  
5409

Aphididae 7687, 10725

*Atherigona soccata* 8380

Burkina Faso 1417, 2440

Ethiopia 1447

Karnataka 3446

Maharashtra 10724

resistance 1446, 4435, 7691

*Blissus leucopterus*, resistance 7692

*Busseola fusca*

Africa 6423

Ethiopia 11734

Kenya 6473

resistance 6473

*Calocoris angustatus*

Andhra Pradesh 7690

damage 3447

Karnataka 4430

resistance 7690, 8656

*Cathartus quadricollis* 836

*Chilo partellus* 3449

Kenya 4397, 5417

Maharashtra 6475

Pakistan 6474

commodities

*Acarus siro*, Italy 6879

#### Sorghum cont.

commodities cont.

Coleoptera, damage 10032, 10056

insect pests, Costa Rica 3704

insecticides, residues 6882

*Rhyzopertha dominica* 9009

*Sitophilus oryzae* 8025

#### Contarinia sorghicola

Andhra Pradesh 1445, 5427, 5431

economic thresholds 5431

India 5428

Karnataka 3450

Queensland 562

resistance 1445, 3450, 5427-5428,

5431

Texas 560, 4433

varietal susceptibility 562

Venezuela 1448

#### Delphacidae

Maharashtra 5430

resistance 5430

#### Eurystylus immaculatus

resistance 7685

West Africa 7685

#### fields

*Abalakeus chekei*, Niger 3448

beneficial arthropods, Burkina Faso

1417

beneficial insects, Kenya 6427

Carabidae, Honshu 5447

Hymenoptera, France 563

natural enemies, Burkina Faso 2440

*Neotrichoporoides*, Ethiopia 1447

predatory arthropods, Arkansas 9715

predatory insects, Kenya 6050

*Trichogramma*, Andhra Pradesh 4389

habitats, insects, Delhi 4101

*Helicoverpa*, Queensland 5388

*Helicoverpa armigera* 9429

Andhra Pradesh 4389

damage 5432

Delhi 5432

Kenya 6050, 6427

resistance 1449

Sudan 1449

Tamil Nadu 2404

varietal susceptibility 5432

#### Helicoverpa zea

Arizona 2191

Arkansas 9715

*Hieroglyphus daganensis*, Niger 3448

Homoptera, Maharashtra 5429

*Hypena scabra*, Ohio 10762

insect pests

Andhra Pradesh 7688

control, cultural control, reviews 9532

India 7686

Maharashtra 7689

resistance 6477, 7688

Texas 4431

insecticides

effects 2438, 6471

residues 6476

toxicity 2437, 2439

intercropping

cowpeas, pest control 595

integrated pest management 1418

pigeon peas, effects, insect pests

11781

soyabeans, effects, *Hypena scabra*

10762

#### Lepidoptera

Kenya 1418

resistance 1418, 3445

South Africa 3445

*Leptoglossus zonatus* 7646

Miridae, Mali 4434

*Mythimna separata* 8626

*Ostrinia nubilalis*, Romania 564

*Peregrinus maidis* 11735

Andhra Pradesh 561

India 8654

resistance 561, 8654

pest control 858

reports 860

West Africa 9032

pest resistance 1450

pesticides, residues 578

Scarabaeidae, Mexico 11711

*Schizaphis graminum*

damage 4432

#### Sorghum cont.

*Schizaphis graminum* cont.

France 563

resistance 1451, 4395, 6472, 10723

USA 8627

#### Stenodiplosis sorghicola

Maharashtra 8655, 11736

resistance 8655, 11736

#### Stenotus rubrovittatus

economic thresholds 9716

Japan 9716

Tenebrionidae, Queensland 5396

*Sorghum arundinaceum*, insect pests 8618

*Sorghum bicolor* (see Sorghum)

#### Sorghum halepense

*Contarinia sorghicola*, Venezuela 1466

*Graminella nigrifrons*, Virginia 10721

habitats, *Aprostocetus diplosidis*, Vene-

zuela 1466

*Sorghum sudanense*, *Poanes melane* 5402

*Sorghum vulgare* (see Sorghum)

*Sorosporella*, hosts, Acrididae 7328

Sound production, Homoptera 11318

Sour cherries (see Cherries)

Sour oranges (*Citrus aurantium*)

*Anoplophora versteegii*, Assam 9884

*Polyphagotarsonemus latus*, damage

4385

#### South Africa

*Ageratina adenophora*, natural enemies

8987

apples

*Eriosoma lanigerum* 8764

orchards

*Oligota fageli* 5523

predatory arthropods 4548

*Panonychus ulmi* 4548

*Phlyctinus callosus* 11852

*Tetranychus urticae* 8763

predators 5522

arthropod pests 8307

asparagus, insect pests 5502

*Averrhoa carambola*, arthropod pests

6690

avocados

*Cryptophlebia leucotreta* 3563

*Protopulvinaria pyramiformis* 10890

*Pseudotheraptus wayi* 4545

cabbages, *Plutella xylostella*, parasitoids

8725

*Charidotis pygmaea* 10025

*Chromolaena odorata*, *Pareuchaetes*

*pseudoinsulata* 2216

*Chrysanthemoides moniliferum*, natural

enemies 8265

Citrus

*Ceratitidis* 667

Diapsididae 7815

orchards

parasitoids 1574

Phytoseiidae 1567

*Papilio demodocus* 1574

Psyllidae 1570

*Scirtothrips aurantii* 1567

*Trioza erythraea*, predators 2579

crops, habitats, Scarabaeidae 3087

*Cryptophlebia leucotreta* 9539

*Eucalyptus*

*Drosophila flavohirta* 5682

*Phoracantha* 9971

*Ficus*, Chalcidoidea 1967

*Ficus burt-davyi*, *Elisabethiella baijnathi*

6672-6673

field crops, *Helicoverpa armigera* 10536

forest trees, pests 5621

forests, *Leptogenys* 5081

fruits

Tephritidae 3533

Tetranychidae 11841

grain legumes, insect pests 9757

grapes

*Ceratitidis* 2568

Tephritidae 11883

grasses, *Messor capensis* 8678

grasslands, insects 8671

greenhouse crops, insect pests 9538

groundnuts

fields, beneficial insects 8810

insect pests 4632-4633, 6714, 7871

*Halictus*, parasitoids 10083

*Helicoverpa armigera* 4156



South Africa cont.

*Hodotermes mossambicus* 2142  
*Lebeckia*, habitats, *Parasitizopus armaticeps* 7726  
*Litchi*  
  pest control 8791  
  pollinators 2585  
*Macadamia*, *Nezara viridula* 11918  
man  
  pesticides  
    poisoning 8544  
    safety 8524  
mandarins, *Cribrolecanium andersoni* 8784  
mangoes  
  *Aceria mangiferae* 2582  
  *Anoplocnemis curvipes* 10882  
  insect pests 8790  
  *Pseudothrips wayi* 10883  
*Odontotermes transvaalensis* 2143  
old fields, arthropods 7262  
oranges, *Aonidiella aurantii* 7842  
orchards, *Phytoseiulus persimilis* 11841  
ornamental bulbs, books 881  
*Orthotomicus erosus* 4153  
passion fruits, arthropods 2587  
pastures, habitats, Scarabaeidae 3087  
pecans, Pentatomidae 9905  
*Phoracantha*, parasitoids 9971  
pineapples, *Phenacoccus solani* 1575  
*Pinus*, Coleoptera 760  
pome fruits, *Cydia pomonella* 10841  
*Pteronia*, *Desmella anceps* 8685  
Rhopalocera, books 11074  
rivers, fishes, insecticide residues 1370  
*Salix*, *Nematus oligospilus*, natural enemies 10948  
Scarabaeidae 4024, 10400  
*Sesbania punicea*, *Trichapion lativentre* 6855  
soil, *Messor capensis* 347  
*Solanum*  
  biological control 11029  
  insect pests 8966  
*Solanum elaeagnifolium*  
  *Leptinotarsa* 8976  
  natural enemies, parasitoids 8982  
sorghum, Lepidoptera 3445  
*Spirostachys africana*, *Tanaostigmodon tambotis* 8054  
subtropical fruits, insects 10872  
sugarcane  
  *Eldana saccharina* 2609  
  insect pests, reports 1783  
wheat, Aphididae, natural enemies 542  
woody plants, Formicidae 12055

**South America**  
*Bactrocera dorsalis* group 8309  
forests, Isoptera 7371  
*Fulvius* 1848  
*Taeniothrips inconsequens* 1150

**South Asia**, Carabidae 3122

**South East Asia**  
*Bactrocera carambolae* 9897  
*Bactrocera papayae* 9351  
*Platydiscillinae* 3749

**South Korea** (see Korea Republic)

**Southern Africa**  
*Aspergillus*, reviews 10454  
*Ficus sycomorus*, *Ceratosolen galili* 672  
sweet potatoes, arthropod pests 11801

**Southern bean mosaic sobemovirus**  
vectors  
  Coleoptera 7740  
  *Epilachna varivestis* 6543  
  insects 2803

**Southern Europe**, *Centaurea*, insects 1225

**Soyabean flour**, mites, Italy 6879

**Soyabean oil**  
control  
  arthropod pests, fruits 8751  
  *Lymantria dispar*, forest trees 2652  
  effects, *Metarhizium flavoviride* 10446

**Soyabeans** (*Glycine max*)  
*Anomala dimidiata*, Uttar Pradesh 4471  
*Anticarsia gemmatilis*  
  Brazil 1256  
  Louisiana 4469, 11767  
  resistance 1471, 2488  
Aphididae 10767  
  Brazil 10768

Soyabeans cont.

Aphididae cont.  
  damage 10754  
Aphidoidea, China 3491  
*Aproaerema modicella*, India 5391  
*Bemisia tabaci* 10757  
  Indonesia 6529  
*Ceratomyxa trifurcata*  
  damage 10760  
  Nebraska 10760  
*Chauliops fallax* 8500  
*Chondracris rosea*, Anhui 3295  
*Chrysodeixis includens* 2192, 6532, 10763  
  Louisiana 1474, 7731  
  Mississippi 588  
  resistance 2487  
*Clanis bilineata*, Hebei 3495  
Coleoptera, Nepal 10766  
commodities  
  *Acanthoscelides obtectus* 12066  
  *Callosobruchus chinensis* 6894  
  Coleoptera 12069  
  pesticides, residues 7572  
  damage 8688  
*Delia platura*  
  damage 6533  
  Japan 6533  
*Empoasca fabae*  
  damage 2484  
  Kentucky 2484  
*Epilachna varivestis* 6528  
  resistance 6528, 9751, 10756  
*Euschistus heros* 7728  
extracts  
  antifeedants  
    *Nilaparvata lugens* 8614  
    *Trichoplusia ni* 6530  
  attractants, *Helicoverpa armigera* 3411  
  insecticidal properties 6530  
fields  
  Araneae, Ohio 7733  
  *Calosoma alternans*, Parana 7569  
  parasitoids, Ohio 3493  
  predatory arthropods, Florida 4468  
  predatory insects, Yugoslavia 6536  
  *Propylea japonica*, China 3491  
*Geocoris*, Sao Paulo 6737  
habitats, *Coccinella septempunctata*, Michigan 5392  
*Helicoverpa armigera* 9429  
*Heliothis* 10265  
Hemiptera, Yugoslavia 6536  
*Hypena scabra*  
  damage 6539, 10764  
  Iowa 6539  
  Ohio 3493  
insect pests  
  Andhra Pradesh 1473  
  control, cultural control, reviews 9532  
  damage 7733  
  Heilongjiang 10753  
  Jiangsu 11768  
  Meghalaya 5263  
  Minas Gerais 7729  
  Ohio 7733  
  resistance 3496-3497, 6538  
  Shandong 3494  
  USA 9750  
insecticides  
  effects 7730  
  metabolism 8689  
  persistence 2192  
  residues 6531  
integrated pest management, Brazil 6535  
intercropping, effects, insect pests 5263  
*Leguminivora glycinivorella*  
  Anhui 8692  
  economic thresholds 8692  
  resistance 6537  
Lepidoptera 7732  
*Liriomyza trifolii* 10275  
Louisiana 8688  
*Melanagromyza sojae*  
  Delhi 9749  
  Madhya Pradesh 6534, 10755  
  Maharashtra 11769  
  resistance 6534, 11769  
*Nezara viridula* 1472  
  Italy 11766

Soyabeans cont.

*Nezara viridula* cont.  
  South Carolina 4107  
Noctuidae 10759  
  economic thresholds 8691  
  Egypt 11765  
  Georgia 9753  
  resistance 9752-9753  
  Vietnam 9752  
  Zimbabwe 8691  
*Obereopsis brevis*  
  Madhya Pradesh 3492  
  resistance 3492  
Pentatomidae 10758  
  Brazil 4472  
  Parana 8690  
  resistance 2486  
  Sao Paulo 2486  
  varietal susceptibility 8690  
pest control 391  
  books 12089  
  reports 860  
pest resistance 6283  
pesticides, residues 578  
*Piezodorus hybneri*, Kyushu 7166  
*Spilarcia obliqua* 2893, 9748  
*Spodoptera exigua* 7636  
  Louisiana 4470  
*Spodoptera litura* 7639  
  Honshu 6278  
  Japan 391, 10761  
  resistance 2489  
  Uttar Pradesh 6406  
  yield losses 10761  
Tenebrionidae, Queensland 5396  
*Thysanoplosia orichalcea*, resistance 8693

**Soybean dwarf luteovirus**, vectors, Aphididae 10767

**Soybean mosaic potyvirus**, vectors, Aphididae 10768

**Spain**  
  agricultural entomology, conferences 10061  
*Ailanthus altissima*, Sphecidae 10002  
apples  
  insecticides, degradation 6644  
  orchards, *Amblyseius andersoni* 6650  
  *Panonychus ulmi* 4562, 6650  
*Arion subfuscus* 11102  
*Aristolochia*, *Zerynthia rumina* 11292  
*Armeria velutina*, *Cyaniris semiargus* 1743, 5052  
arthropods, ecology 7151  
aubergines, insecticide residues 5503  
barley, *Mayetiola hordei* 6429  
Bibionidae 10309  
broadleaves, *Salebriopsis albicilla* 4685  
*Camponotus universitatis* 2096  
*Carabus* 5827  
Ceratopogonidae 9738  
cereals, pests 10686  
Chiroptera, pesticide residues 5345  
*Chorthippus parallelus* 3092, 3908, 6012, 8257  
*Citrus*, *Dialeurodes citri* 6685  
*Coccophagus afrangitatus* 11091  
Coleoptera 1257  
Collembola 8062, 11367  
crops, Aphididae 11713  
*Cuscuta epithymum*, pollinators 3195  
*Doclostaurus maroccanus* 7325  
  predators 6148  
*Drosophila buzzatii* 7173, 8187  
*Drosophila subobscura* 10236  
Encyrtidae 11378  
*Eucalyptus globulus*, habitats, *Brinck-ochrysa nachoi* 741  
*Euscerica* 6970  
*Eyprepocnemis plorans* 2983  
*Falco naumanni*, pesticide residues 3382  
fodder crops  
  *Dasyhelea arenosa* 9738  
  *Dasyhelea punctiventris* 9738  
food, pesticide residues 467  
forest trees, habitats, Psocoptera 8855  
forests, arthropods 10940  
Formicidae 6150  
Gastropoda 10283  
Geometridae 2028



**Spain cont.**

- grapes
  - Eriophyidae 9869
  - Lepidoptera 6996
  - Lobesia botrana* 7898, 9870-9871
- grasses, *Messor barbarus* 1465
- grasslands, Scarabaeoidea 6023
- habitats, Chrysopidae 4674
- Haplidia 1833
- honey
  - insecticide residues 8572
  - pesticide residues 11662
- hops, *Phorodon humuli* 6835
- Hormathophylla spinosa*, *Ceutorhynchus* 10020
- human milk, pesticide residues 11654
- Ichneumoninae 9373
- Juniperus thurifera*, *Solenoxypis saulei*, ectoparasites 2715
- Lepidoptera 4685, 7278
- Liparthrum mandibulare* 8304
- Lycaenidae 240
- maize
  - Agrotis segetum* 6457
  - Sesamia nonagrioides* 2427, 9707
- man
  - insecticide residues 8564
  - Tetranychus urticae*, allergies 8356
- meat products, pesticide residues 2298
- Messor* 207
- Mustela lutreola*, pesticide residues 3368
- nectarines, Thripidae 6661
- Nomius pygmaeus* 1160
- Ocnogyna baetica* 2173, 7432
- natural enemies 330
- pathogens 4146
- olives
  - Hylesinus varius* 1602
  - parasitoids 4626
  - insect pests 6709
  - orchards, Chrysopidae 4627
  - Phloeotribus scarabaeoides* 2597, 4628
  - Scolytidae, parasitoids 2078
- oranges, Diaspididae 6686
- orchards
  - predators 2131
  - soil, insecticides, degradation 2365
- Orius* 6966
- Osmia tricornis*, natural enemies 5148
- Papilio machaon* 3066
- Pararge aegeria* 9333
- peaches, insecticide residues 10859
- pest control, information 9030
- pesticides, legislation 7523
- Phillyrea angustifolia*, *Schizomyia phillyreae* 8888
- Pinus nigra*, *Cinara quadris* 12011
- Pipistrellus pipistrellus*, insecticide residues 466
- Pistacia terebinthus*, *Agonoscena targionii* 8938
- plants, pollinators 5148
- Pleurophorus maghrebinicus* 7287
- Prunus*, *Paragus hyalopteri*, predators 1842
- Psylloidea 7126
- Quercus*, *Altica quercetorum* 5646
- Quercus ilex*, *Psylliodes ruficolor* 742
- Quercus suber*, *Platypus cylindrus* 6992
- Rhopalocera 7275, 7277
- rivers, insecticide residues 11677
- shrubs, *Hemineura bigoti* 2729
- soil
  - acaricide residues 10645
  - pesticide residues 495
- strawberries
  - fields, *Orius laevigatus* 6664
  - Frankliniella occidentalis* 6664
- sugarbeet, *Pegomya cunicularia*, parasitoids 2612
- Thaumetopoea pityocampa* 10173
- tomatoes
  - fields, Miridae 7788
  - Helicoverpa armigera* 6609, 9810
  - integrated pest management 6610
- Tribolium castaneum* 3056
- Trogoderma inclusum* 6290
- Urtica morifolia*, *Vanessa indica* 3114
- vegetables, *Liriomyza huidobrensis* 6571
- Vicia*, *Eutrichapion mystriophorum* 6971

**Spain cont.**

- water, insecticide residues 507
- wheat, *Mayetiola destructor* 6429, 6446-6448
- wild plants
  - Coleophora* 584
  - pollinators 8967
- Zygaenidae 3107
- Spalangia endius**
  - control, *Exorista bombycis*, evaluation 6271
  - ecology, life tables 6271
- Sparganothis pilleriana**, pheromones 2389
- Spartina alterniflora**
  - Carneiocephala floridana*, Florida 4777
  - Prokelisia marginata*
    - California 2752
    - Michigan 5175
- Spartium junceum**
  - Agonopterix ulicetella* 11013
  - insects, Israel 1723
  - Typhlodromus kykladiticus*, Greece 4858
- Spathius anale**
  - Dalbergia sissoo*, habitats, India 5158
  - hosts, *Sinoxylon anale* 5158
- Spathius brevicaudis**
  - biology, behaviour 7948
  - hosts, Coleoptera 7948
  - Pinus*, habitats, Honshu 7948
- Spathosternum prasiniferum**
  - ectoparasites 1186
  - genetics, chromosomes 8474, 8961
  - plant extracts, effects 8961
  - Tamil Nadu 1186
- Spathosternum prasiniferum prasiniferum**, morphology, eggs 10133
- Spectrobates ceratoniae** (see *Apomyelois ceratoniae*)
- Specularius bridwelli**
  - Fabaceae, commodities, Delhi 10042
  - parasitoids 10042
- Speculitermes**, South Asia 11460
- Spermophagus pygopubens**
  - distribution, Andhra Pradesh 11051
  - Hibiscus sabdariffa*, commodities 11051
- Speyeria mormonia**
  - biology, behaviour 64
  - morphology 64
- Sphaerocera**, taxonomy 9078
- Sphaeroderus lecontei**, distribution, Maryland 3080
- Sphaerolecanium prunastri**
  - control 11864
  - peaches, Ukraine 11864
- Sphaerophoria scripta**
  - cereals, fields, Germany 8625
  - ecology, population dynamics 8625
  - prey, *Diuraphis noxia* 11717
  - wheat, fields, France 11717
- Sphecidae**
  - biology, behaviour 1986
  - distribution, Lithuania 1153
  - fields, Germany 11344
- Sphecodes marginatus**, distribution, UK 3120
- Sphecochaga vesparum**
  - hosts, *Vespa orientalis* 8383
  - Israel 8383
  - Washington 3939
- Sphegigaster pedunculiventris**, taxonomy, from *Diplolepis* 9049
- Sphenarium purpurascens**
  - Datura stramonium*, varietal reactions 3696
  - Wigandia urens*, Mexico 4769
- Sphenostethus**, taxonomy 6965
- Spheg**
  - taxonomy 2836
- Vitex negundo*
  - Andhra Pradesh 5684
  - pollination 5684
- Sphindus**, taxonomy 10088
- Sphingidae**
  - biology, behaviour 11297
  - distribution, Taiwan 6100
  - Fagus*, Slovakia 3642
  - food plants 6100
  - forests, Costa Rica 11297
  - Guinea 7276
  - Hong Kong 6104
  - morphology 6100, 6997

**Sphingidae cont.**

- morphology cont.
  - reproductive organs 1861
- Sphingonotus azureus**, Algeria 9362
- Sphingonotus caeruleus**, Algeria 9362
- Sphinx lugens**
  - Wigandia urens* 10981
  - Mexico 4769
- Sphondin**, effects, *Papilio polyxenes* 9158
- Spices**
  - commodities
    - fumigants, residues 5752
    - insect pests, control, chemical control 5752
    - pest control, Tamil Nadu 5752
- Spiders** (see Araneae)
- Spilactia**, morphology, genitalia 10128
- Spilactia obliqua**
  - biology
    - development 2893
    - reproduction 3023
  - cauliflowers
    - Delhi 5499
    - resistance 5499
  - control
    - chemical control 5619, 7865
    - physical control 7865
    - disinfectants, effects 9473
    - food plants 2893, 9748
    - growth regulators, effects 11604
  - jute
    - West Bengal 5619
    - yield losses 5619
  - pathogens 9473
  - physiology, haemolymph 5894
  - plant extracts
    - antifeedants 8606, 10016
    - attractants 4369
  - sunflowers, India 7865
- Spilochalcis**
  - hosts, *Anarsia lineatella* 3539
  - stone fruits, orchards, California 3539
- Spilomena**
  - biology 4852
  - New Zealand 4852
  - taxonomy 4852
- Spilonota ocellana**
  - control, mating disruption 2543, 6626
  - fruits, Europe 2543
  - tree fruits, Germany 6626
- Spilonota pyrusicola**
  - biology 10856
  - Crataegus*, China 10856
- Spilosoma congrua**
  - biology, behaviour 1090
  - Plantago lanceolata*
    - damage 11030
    - New York 1090, 11030
  - predators 1090
- Spilosoma lubricipeda**, pyrrolizidine alkaloids, metabolism 4928
- Spilosoma obliqua** (see *Spilactia obliqua*)
- Spilosoma pbluqua** (see *Spilactia obliqua*)
- Spilosoma virginica**
  - Conium maculatum*, Illinois 4783
  - predators 7732
  - soybeans 7732
- Spilostethus hospes**
  - biology, behaviour 8622
  - ecology, population dynamics 8622
  - food plants, India 8622
- Spinach** (*Spinacia oleracea*)
  - extracts, effects, *Milax rusticus* 10401
  - insecticides, residues 1510, 3513
- Spinach beets** (*Beta vulgaris*)
  - insecticides, residues 3513
- Spinacia oleracea** (see Spinach)
- Spiroplasma**, hosts, *Drosophila* 7459
- Spiroplasma citri**
  - vectors
    - Cicadellidae 10880
    - insects 1569
- Spiroplasma kunkelii**, vectors, *Dalbulus maidis* 1439
- Spirostachys africana**
  - Tanaostigmodes tambotis*
    - galls 8054
    - South Africa 8054
- Spirostreptidae**, ecology, soil 9287
- Spitsbergen**, *Acyrtosiphon svalbardicum*, *Dryas octopetala* 8970



*Spizella passerina*, pesticides, consumption 11645

*Spizella pusilla*, pesticides, consumption 11645

*Spodophagus*  
Madagascar 5171  
taxonomy, new genus 5171

*Spodophagus lepidopterae*  
Madagascar 5171  
taxonomy, from *Oxyglyptus* 5171

*Spodoptera*, parasitoids 5150

*Spodoptera albula*  
cabbages, Puerto Rico 3518  
French Guiana 9068  
pheromones 9068

*Spodoptera androgea*  
French Guiana 9068  
pheromones 9068

*Spodoptera depravata*  
biology, life cycle 10008  
lawns and turf, Tianjin 10008  
natural enemies 10008  
pathogens 366

*Spodoptera descovinsi*  
French Guiana 9068  
pheromones 9068, 10678  
taxonomy, new species 9068

*Spodoptera dolichos*  
distribution, Denmark 1152  
French Guiana 9068  
pheromones 9068

*Spodoptera eridania*  
cotton, Florida 4667  
distribution, Denmark 1152  
insecticides, toxicity 3338  
maize, Florida 2428  
monitoring, traps 2428  
parasitoids 4667  
pesticides, effects 4250  
*Pharbitis purpurea*  
North Carolina 1740  
resistance 1740  
pheromones 2428  
pyrroles, toxicity 5279

*Spodoptera evanida*  
French Guiana 9068  
pheromones 9068

*Spodoptera exempta*  
Africa 6277  
control, chemical control 6277  
ecology, population dynamics 5069  
growth regulators, effects 3410  
insecticides, toxicity 455, 4266  
maize 5422  
Africa 1436  
resistance 556  
outbreaks 5069  
physiology, nutrition 1436  
plant extracts, effects 556

*Spodoptera exigua*  
attractants 4373  
*Bacillus thuringiensis*, toxins, toxicity 1268, 11498  
biochemistry 376  
enzymes 7535  
immunity 375  
biological control agents, evaluation 2173, 4166  
biology  
behaviour 7636, 10799  
development 691, 10759  
environmental factors 8819  
life cycle 7880  
cabbages 10799  
damage 8727  
Puerto Rico 3519  
Shanghai 6339  
celery, furanocoumarins, effects 11582  
cell lines, pathogens 4191, 9489  
control 10049  
chemical control 4470, 5414, 6736, 7880, 8819  
integrated control 9752  
mating disruption 6407  
cotton  
Florida 4667  
Louisiana 6736  
outbreaks 6736  
USA 6735  
cut flowers 10049  
ecology, population dynamics 6736, 7636

*Spodoptera exigua cont.*  
field crops  
California 6407  
Korea Republic 5496  
food plants 7636, 10759  
grain legumes  
reviews 9757  
South Africa 9757  
growth regulators  
effects 691  
toxicity 2276  
insecticides  
effects 11591  
resistance 4260, 6327, 6339, 11582  
toxicity 261, 455, 4266, 4470  
Japan 4373  
maize  
Egypt 5414  
Florida 2428  
monitoring, traps 2428  
natural enemies 6735  
onions, Taiwan 6327  
parasitoids 315, 4667, 9420  
pathogens 369, 375-376, 4155, 4159, 5234, 7443, 7447, 9480, 10437  
pesticides, toxicity 7535  
pheromones 2428  
plant extracts  
antifeedants 8613  
effects 3318  
predators 5414, 11591  
*Ricinus communis* 691  
soyabans  
Louisiana 4470  
resistance 9752  
Vietnam 9752  
sugarbeet  
damage 4640  
Hunan 8819  
Jiangsu 7880  
tobacco, transgenic plants, toxicity 7500  
tomatoes  
California 635, 4526  
resistance 635, 2233, 4526, 7790

*Spodoptera frugiperda*  
*Acremonium coenophialum*, interactions 10747  
biochemistry 4925, 10153  
endocrine system 5933  
enzymes 6047, 8126, 11182  
proteins 2941, 4906  
biology  
behaviour 1998, 4630, 6047, 6056  
development, models 4428  
environmental factors 1108, 2004  
reproduction 1996, 5848, 6236  
Brasilia 8419  
cabbages, Puerto Rico 3519  
*Capsicum annuum*  
damage 11832  
Ohio 11832  
cell culture 4071  
cell cultures 958  
cell lines 1935, 11182  
*Bacillus thuringiensis*, toxins, effects 3275  
*Beauveria sulfurescens*, toxins, effects 4200  
biochemistry 8171  
chemical composition 7100  
secretions 3829  
enzymes, production 5242  
genetics  
gene transfer 2985  
genetic engineering 5951  
pathogens 373, 1255, 2052, 2054, 2080, 2163, 2165, 2172, 2968, 3137, 4148, 4191, 4906, 6249, 6252-6253, 7095, 8408, 8426, 9507, 9509, 10153, 10353, 10424, 10427, 11492, 11496, 11512, 11533-11534  
cells, pathogens 4925  
conferences 2424  
control 2424  
biological control 6462-6463, 8451, 10466  
chemical control 549, 6461, 7675, 10707, 11832  
cultural control 8643  
cotton, Florida 4667

*Spodoptera frugiperda cont.*  
cowpeas 2272, 6461  
diets 4475  
*Festuca arundinacea* 10747  
field crops, Pernambuco 8643  
French Guiana 2188, 9068  
genetics  
DNA 162  
gene transfer 1942  
genetic variation 1046  
grasses 5455  
groundnuts 4630  
growth regulators  
effects 4352, 10707  
mixtures, toxicity 2272  
*Ilex opaca* 6808  
insecticides  
effects 8496  
resistance 5298  
maize 7677  
Georgia 2424-2425, 6461-6462, 10707  
Guadeloupe 4428  
New Jersey 549  
North America 2436  
pest resistance 4412  
resistance 2425-2426, 2430-2431, 5415, 8642, 9711, 10719, 11729  
Sao Paulo 4412, 4416  
USA 6463  
Venezuela 7675  
Mexico 10466  
monitoring, traps 11832  
natural enemies 6462  
North America 1046  
parasitoids 1998, 4416, 4475, 4667, 6188, 7186, 7677  
pathogens 1267, 1443, 2168, 2170, 2172, 2188, 2196, 2199, 2436, 4177, 4193, 5227, 5236, 5242, 6236, 6255, 7128, 7444-7445, 7451, 8419, 9485-9486, 10416, 10437, 11493  
*Phaseolus vulgaris* 4475  
pheromones 9068  
physiology, cuticle 7055  
Poaceae 10685  
predators 3991, 7732, 11742  
prey, insect pests 11742  
soyabans 7732  
taxonomy 1813

*Spodoptera latifascia*  
French Guiana 9068  
pheromones 9068, 10678

*Spodoptera litoralis*  
antifeedants 1731  
azadirachtin, effects 9549  
biochemistry  
endocrine system 8165, 9202  
enzymes 4247, 5867, 10155-10156  
haemolymph 10158  
biology  
behaviour 5505, 7202  
environmental factors 3064-3065  
cell lines, pathogens 4191  
control 5602, 11765  
chemical control 2626, 5458  
cotton  
Egypt 2626, 5602  
resistance 5268  
diets 7202  
Egypt 1272  
food plants 2194  
fungi, interactions 10420  
growth regulators, effects 3410, 6395, 7624  
herbicides, effects 2259  
insecticides  
antifeedants 2735  
effects 4247  
pathogenicity 357, 6244  
resistance 8512  
toxicity 4266, 8512  
lucerne, Libya 5458  
morphology  
nervous system 9191  
sense organs 10169  
parasitoids 315-316  
pathogens 2157, 2194, 5602, 7433, 7866, 10444  
pheromones 10169



**Spodoptera littoralis** cont.

- physiology
    - development 4902
    - nervous system 9191
    - pheromones 3831, 3833
  - plant extracts
    - antifeedants 525, 1401, 3413, 5381, 8610-8611
    - effects 2249, 2740, 4353, 5382, 7202, 8959
    - toxicity 4763, 6825
  - Ricinus communis* 2259, 8959
  - soyabeans, Egypt 11765
  - tomatoes 5505
    - resistance 5268
  - transmission, plant pathogens 1272
- Spodoptera litura**
- antifeedants, effects 6405
  - Bacillus thuringiensis*, toxins, toxicity 10418
  - Bacillus thuringiensis* subsp. *kurstaki*, toxins, toxicity 7463
  - biochemistry
    - digestive system 3817
    - enzymes 4923
    - proteins 4907, 9184
  - biological control agents, evaluation 2600
  - biology 724
    - behaviour 1605, 5581, 9319, 10799
    - bioenergetics 7895
    - development 7639, 9908
    - reproduction 70-71
  - cabbages 10799
    - Bangladesh 1509
    - Shanghai 6339
  - cell lines
    - genetics, genetic engineering 9236
    - pathogens 4191, 7462
  - control 2404, 3609
    - biological control 1493, 2600
    - chemical control 1509, 4483, 6278
  - cotton 7895
  - diets 5581, 7463
  - ecology, population dynamics 1605
  - enzyme inhibitors, toxicity 4923
  - Fabaceae
    - Andhra Pradesh 5581
    - resistance 5581
  - field crops, Uttar Pradesh 6406
  - food plants 3419, 7639, 9908
  - groundnuts
    - Tamil Nadu 2404
    - Uttar Pradesh 1605
  - growth regulators, effects 7895, 10535
  - insecticides
    - antifeedants 6332
    - effects 7538, 11682
    - pathogenicity 3270
    - resistance 6339, 10553
    - toxicity 3333, 3340, 6548, 9908
  - Japan 4074
  - Jatropha curcas*, Madhya Pradesh 724
  - lucerne, Japan 391
  - monitoring
    - damage 10761
    - traps 1605, 4074, 6406
  - organic compounds, effects 5281
  - parasitoids 171, 7203
  - pathogens 171, 368, 391, 2600, 3609, 5224, 5249, 7583, 8430, 8555, 9472, 10351
  - pheromones 6406
  - physiology
    - sense organs 7033
    - taste 9319
  - plant extracts
    - antifeedants 6829, 11697, 11700
    - effects 803-804, 5581, 11699
    - growth regulators 5369
    - toxicity 6827
  - potatoes, Karnataka 1493
  - predators 8393
  - Ricinus communis* 2600
  - root crops 4483
  - soyabeans
    - Honshu 6278
    - Japan 391, 10761
    - Jiangsu 11768
    - resistance 2489
    - yield losses 10761
  - Taiwan 368

**Spodoptera litura** cont.

- tobacco, Tamil Nadu 3609
  - Trifolium repens*, Japan 391
- Spodoptera mauritia**
- biochemistry, digestive system 11194
  - growth regulators, effects 3409
  - pathogens 8435
  - ultrastructure, prothoracic glands 11151
- Spodoptera ornithogalli**, distribution, Denmark 1152
- Spodoptera pectinicornis**
- Asia 6851
  - biology, reproduction 6851
  - control, *Pistia stratiotes*, evaluation 6851
  - food plants 6851
- Spoladea recurvalis**, Kyushu 7160
- Spondias pinnata**, *Podontia quatuordecimpunctata* 3566
- Spondias purpurea**
- Anastrepha obliqua* 1965
  - insect pests, Mexico 7932
  - Tephritidae, Goias 7840
- Sponge gourds** (see *Lagenaria siceraria*)
- Sporothrix insectorum**
- control, *Leptopharsa gibbicarina* 719
  - culture techniques 719
  - hosts, *Leptopharsa* 719
- Sprayers**
- assessment 7300
  - pesticides 3168, 3170
- Spraying equipment**, usage 11400
- Sprays**, application 3161
- Spruce** (see *Picea*)
- Spurgia esulae**
- Euphorbia esula* 2753
  - herbicides, effects 2753
- Squash silverleaf**, vectors, *Bemisia tabaci* 5510
- Squashes** (see also *Cucurbita* spp.)
- Anasa tristis* 11422
  - commodities, growth regulators, residues, analysis 4068
  - Diaphania hyalinata*, Florida 9824
  - Diaphania nitidalis*, Florida 6616
- Sri Lanka**
- Aphelinus* 9098
  - Aphididae 10328
  - aubergines
    - fields, *Trathala flavo-orbitalis* 1211
    - Leucinodes orbonalis* 1211
  - Chromolaena odorata*, biological control 11028
  - coconuts, *Dysmicoccus* 5575
  - Coleoptera 6942
  - cowpeas, Lepidoptera 1489
  - crops, *Bactrocera kandiensis* 9894
  - fruits, *Bactrocera caryae* 9882
  - Lepidoptera 24
  - Myrmarachne plataleoides* 2137
  - pest control 1461
  - rice
    - fields, Hymenoptera 4438
    - Orseolia oryzae* 4438
  - Tachysphex* 6986
  - tea, reports 854
  - Tectona grandis*, *Holotrichia serrata* 8891
  - Trichosanthes cucumerina*, *Lasiotera chichindae* 637
  - Varroa sinhai* 3790
- Stalker**, control, *Phyllocnistis citrella*, Citrus 11897
- Stangeriaceae**, insect pests, Australia 10932
- Staphylinidae**
- Anhui 10290
  - barley, fields, Germany 6451, 10702
  - biochemistry, secretions 4936
  - biology
    - behaviour 1101
    - environmental factors 5160
    - feeding 11715
  - cassava, fields, Congo 6565
  - cereals
    - fields
      - Denmark 11715
      - Norway 2406
      - Switzerland 5160
    - crops, habitats, South Africa 3087
  - distribution, Switzerland 2032
  - ecology 3075
  - colonization 9283

**Staphylinidae** cont.

- ecology cont.
    - habitats 7245
    - insect communities 10290
    - population dynamics 3087
  - Eucalyptus*, Espirito Santo 3637
  - Festuca arundinacea*, habitats 10747
  - fields
    - habitats, Germany 9383
    - Sweden 586
  - fungicides, effects 10702
  - grasses, habitats, UK 9380
  - habitats
    - Germany 1101
    - Poland 536
  - insecticides, effects 10691
  - maize, fields, Virginia 3437
  - monitoring, traps 3637, 6451, 9675, 10693
  - morphology
    - genitalia 4877
    - size 5828
  - orchards, Slovakia 7802
  - pastures, habitats, South Africa 3087
  - pesticides, effects 6451, 9675
  - pollutants, effects 7511
  - prey
    - Acyrtosiphon pisum* 586
    - Anastrepha ludens* 8385
    - Aphididae 5161, 6565, 7658
    - Phthorimaea operculella* 7755
    - Rhopalosiphum padi* 2406
  - Slovakia 3075, 7511
  - taxonomy 3778
  - UK 7245, 9283
  - wheat
    - fields
      - Finland 10693
      - Germany 9675
      - UK 10691
- Staphylinus**, biochemistry, secretions 4936
- Starvation**, effects, *Galleria mellonella* 10194
- Statherotis discana**
- Litchi*, Japan 5560
  - morphology, reproductive organs 5560
- Stathmopoda auriferella**
- ecology, environmental factors 11911
  - kiwifruits
    - damage 11911
    - Korea Republic 11911
- Stator beali**
- biology, reproduction 11163
  - Pithecellobium ebano* damage 6768
  - Mexico 6768
- Stator limbatus**
- biology
    - development 4776
    - life history 6033
    - reproduction 11163, 11170
  - food plants 4776, 6033
- Staurastrum**, insecticides, effects 10614
- Stearic acid**, attractants, *Diabrotica virgifera* 7681
- Steatoda badia**
- ecology, population dynamics 1417
  - prey, *Atherigona soccata* 1417
  - sorghum, fields, Burkina Faso 1417
- Steganacarus ortzi**
- Madeira 4857
  - taxonomy 4857
- Steganacarus similis**
- Madeira 4857
  - taxonomy 4857
- Stegobium paniceum**
- biology, behaviour 8012
  - cereal grains, South Carolina 4809
  - cytology 10199
- Stegodyphus sarasinorum**
- biochemistry, enzymes 4922
  - Karnataka 4922
- Steinernema** (see also *Neoaplectana*)
- biochemistry, lipids 7418
  - biology 7399
    - environmental factors 7400
  - control, *Otiorynchus sulcatus*, evaluation 7409
  - distribution, Sri Lanka 8406
  - ecology, distribution 9746



- Steinernema cont.**  
 hosts  
*Galleria mellonella* 7400, 8406  
*Hoplocampa* 361  
*Otiorynchus ligustici* 4176, 9746  
*Otiorynchus sulcatus* 7398
- Steinernema anomali**  
 control  
*Diaphania hyalinata*, squashes 9824  
*Diaphania nitidalis*, Cucurbitaceae 6616  
 hosts, insect pests 6257
- Steinernema bibionis**  
 control  
*Hoplocampa testudinea*, evaluation 2220  
*Lycoriella mali*, mushrooms 813
- hosts  
*Cotinis nitida* 2186  
 insect pests 2203  
*Lycoriella mali* 813  
*Phthorimaea operculella* 6562  
*Popillia japonica* 2189  
*Sciara* 6839  
*Spodoptera littoralis* 2157
- Steinernema carpocapsae**  
 biology 7399, 7411  
 environmental factors 8418, 10789  
 cold storage 1246  
 control  
*Amsacta albistriga*, groundnuts 5580  
*Carpophilus hemipterus*, evaluation 4214  
*Cephalcia arvensis*, *Picea abies* 5677  
*Diaphania hyalinata*, squashes 9824  
*Diaphania nitidalis*, Cucurbitaceae 6616  
*Hoplocampa testudinea*, evaluation 2220  
 insect pests, sweet potatoes, evaluation 5482  
*Liriomyza trifolii*, evaluation 12037  
*Listronotus oregonensis*, evaluation 10789  
*Otiorynchus sulcatus* 10470  
*Cyclamen* 7973  
 Scarabaeidae, lawns and turf 4755  
*Sitona lineatus*, evaluation 3490  
*Zeuzera pyrina*, crops 2396
- ecology, distribution 9746  
 hosts  
*Amsacta albistriga* 5580  
*Carpophilus hemipterus* 4214  
*Cephalcia arvensis* 5677  
*Cotinis nitida* 2186  
*Galleria mellonella* 1246, 8409, 8415, 8418  
 insect pests 1247, 5482, 6257  
*Listronotus oregonensis* 10789  
*Otiorynchus ligustici* 4176, 9746  
*Otiorynchus sulcatus* 10457  
*Pectinophora gossypiella* 8428  
*Phthorimaea operculella* 6562, 10417  
*Popillia japonica* 2189  
 Scarabaeidae 4755  
*Spodoptera litura* 5249, 7583  
 infectivity 8409  
 insecticides, toxicity 7583  
 radiation, effects 10417  
 sex ratio 7475
- Steinernema carpocapse** (see *Neoplectana feltiae*)
- Steinernema feltiae**  
 biology 7411  
 behaviour 7408  
 control  
 biological control, *Lycoriella*, mushrooms 6838  
*Carpophilus hemipterus*, evaluation 4214  
*Cephalcia arvensis*, *Picea abies* 5677  
*Cyclocephala hirta*, lawns and turf 791  
*Deroceras reticulatum*, evaluation 4136  
*Diaphania hyalinata*, squashes 9824  
*Diaphania nitidalis*, Cucurbitaceae 6616  
*Frankliniella occidentalis*, evaluation 7380  
*Lycoriella mali*, mushrooms 3683
- Steinernema feltiae cont.**  
 control cont.  
*Megaselia halterata*, mushrooms 7993  
*Phyllobius pomaceus*, strawberries 7830
- development 7413  
 hosts  
*Bradysia paupera* 7413  
*Carpophilus hemipterus* 4214  
*Cephalcia arvensis* 5677  
*Cyclocephala hirta* 791  
*Galleria mellonella* 8415  
 insect pests 6257, 7405  
 invertebrates 4136  
*Lycoriella mali* 3683  
*Otiorynchus ligustici* 4176  
*Phthorimaea operculella* 6562  
*Tenebrio molitor* 7396  
*Tipula* 2178  
 pesticides, effects 7396
- Steinernema glaseri**  
 biology 7399  
 control  
*Carpophilus hemipterus*, evaluation 4214  
*Diaphania hyalinata*, squashes 9824
- hosts  
*Carpophilus hemipterus* 4214  
*Cotinis nitida* 2186  
*Galleria mellonella* 8415  
 insect pests 379  
*Popillia japonica* 2189, 4265  
 morphology 8417  
 sex ratio 7475
- Steinernema kraussei**  
 control, *Cephalcia arvensis*, *Picea abies* 5677  
 hosts  
*Cephalcia arvensis* 5677  
*Otiorynchus sulcatus* 7398  
 taxonomy 7381
- Steinernema kushidai**, hosts, *Anomala cuprea* 7480
- Steinernema robravis**  
 biology, environmental factors 11489  
 control, *Carpophilus hemipterus*, evaluation 4214  
 hosts  
*Carpophilus hemipterus* 4214  
*Helicoverpa zea* 9702  
*Heliothis virescens* 9952  
 Noctuidae 2436  
*Otiorynchus ligustici* 4176  
*Pectinophora gossypiella* 8428
- Steinernema scapterisci**  
 bacteria, symbiosis 10449  
 control, *Scapteriscus*, lawns and turf 4756  
 hosts, *Scapteriscus* 5250
- Steinernematidae**  
 bacteria, symbionts 4196  
 control, arthropod pests, evaluation 10469  
 taxonomy 7412
- Stelidota geminata**  
 ecology, population dynamics 4030  
 forest trees, Ohio 7903  
 Illinois 4030
- Stelidota octomaculata**, forest trees, Ohio 7903
- Stelis phaeoptera**, hosts, *Osmia tricornis* 5148
- Stellaria graminea**, Gastropoda, UK 11009
- Stellaria media**, Syrphidae, Switzerland 2759
- Stenomiesium japonicus**  
 groundnuts, fields, Maharashtra 11938  
 hosts, *Approaerema modicella* 11938
- Stenchaetothrips biformis**  
 rice  
 Philippines 11743  
 resistance 2459  
 Tamil Nadu 2459
- Stenella coeruleoalba**, organochlorine compounds, effects 7617
- Stenotarsonemus spinki**  
 control, chemical control 9720  
 rice, Guangdong 9720
- Stenobothris stigmaticus**, lawns and turf, UK 3669
- Stenobracon deesae**, sugarcane, habitats, Bihar 6718
- Stenodes straminea**  
 biology, oviposition 4353  
 plant extracts, effects 4353
- Stenodiplosis sorghicola**  
 sorghum  
 Maharashtra 8655, 11736  
 resistance 8655, 11736  
 taxonomy, from *Contarinia* 8045
- Stenolechia rectivalva**  
 biology, life history 10893  
 chestnuts  
 damage 10893  
 Hebei 10893  
 control 10893
- Stenolophus discophorus**  
 biology, migration 1075  
 Moldova 1075
- Stenolophus mixtus**  
 biology, migration 1075  
 Moldova 1075
- Stenomidae**, biology, behaviour 737
- Stenopogon inquinatus**  
 biology 3228  
 fields, habitats, Montana 3228  
 morphology 3228
- Stenoptilia rhyncosiae**, taxonomy, to *Exelastis* 1804
- Stenotaphrum secundatum**, *Myndus crudus*, Florida 6516
- Stenotarsus rotundus**  
 biology, behaviour 2686  
*Oenocarpus mapora*, Panama 2686  
 physiology, diapause 2903
- Stenotus rubrovittatus**  
 rice, Japan 9727  
 sorghum, Japan 9716
- Stenus**  
 Sichuan 20  
 taxonomy 20
- Stephanandra incisa**, *Pidonia tsuyukii*, Honshu 5707
- Stephanica japonica**, *Eudocima fullonia* 800
- Stephanitis**, secretions, effects, microorganisms 11192
- Stephanitis fasciataria**  
 biology 51  
 food plants, Japan 51
- Stephanitis pyri**  
 distribution, Israel 2026  
 ecology 11842  
 orchards, Yugoslavia 11842
- Stephanitis pyrioides**  
 biology 51  
 environmental factors 7505, 8944  
 oviposition 4748  
 food plants, Japan 51  
 forecasting 7505  
 Kyushu 7505  
*Rhododendron*  
 North America 8944  
 North Carolina 4748
- Stephanitis rhododendri**  
 distribution, UK 9353  
 taxonomy 10087
- Stephanitis svensoni**  
 biology 51  
 food plants, Japan 51
- Stephanitis takeyai**  
 biology 51, 7637  
 food plants 7637  
 Japan 51  
 ornamental woody plants, Honshu 10000
- Stephanitis typicus**  
 bananas, Gujarat 11889  
 control, chemical control 11889
- Stephanoides**, taxonomy 1803
- Sterculia**, *Dysdercus cardinalis*, Kenya 6408
- Sterculia chicha**, *Anastrepha bezzii*, damage 5635
- Sterculia tragacantha**, wood, *Prostephanus truncatus* 5739
- Stereonychus fraxini**, *Fraxinus excelsior* 4706
- Sterile insect release**  
 control  
*Anastrepha suspensa* 1776  
 Citrus 1573  
*Bactrocera* 6598  
*Bombyx mandarina* 11555



**Sterile insect release cont.**

## control cont.

*Ceratitis capitata* 1295  
models 1296

**Sterile male technique** (see Sterile insect release)

*Sterna caspia*, insecticides, residues 1346

*Sterna hirsuta*, insecticides, effects 2342

*Sternocera castanea*, *Acacia*, Sudan 6776

**Sternochetus frigidus**

distribution, Philippines 11906  
mangoes

Philippines 11906  
South Africa 8790

**Sternochetus mangiferae**

distribution, Trinidad and Tobago 11386  
mangoes, commodities, detection 6891

**Sternorrhyncha**, genetics, nucleotide sequences 160**Stethoconus praefectus**

*Lantana camara*, habitats, Karnataka 11446

prey, *Teleonemia scrupulosa* 11446

**Stethopachys formosa**

control, chemical control 12039

*Dendrobium*, Australia 10994

distribution, Australia 10994

*Epidendrum* × *obrienianum*, Australia 12039

insecticides, effects 12039

**Stethorus**

prey, *Acaphylla theae* 8821

tea, plantations, China 8821

**Stethorus bifidus**

biology, development 6020

predators 6020

**Stethorus japonicus**, prey, *Oligota kashmirica benefica* 613**Stethorus loi**

prey, *Panonychus citri* 7859

*Ziziphus mauritiana*, habitats, Taiwan 7859

**Stethorus punctillum**

biology 11444

control, *Panonychus ulmi* 11444

fruits, habitats, Italy 11444

pesticides, effects 11444

prey, Aphididae 11869

Yugoslavia 11869

**Stethorus punctum**, insecticides, toxicity 10581**Stethorus punctum punctum**

apples, orchards, Pennsylvania 9838

monitoring, traps 9838

**Stevia**, Mexico 6840**Sticholotidinae**

Asia 10095

taxonomy 10095

**Sticholotidini**, taxonomy 4865**Stichotrema**, taxonomy 26**Stichotrema acutipennis**, distribution, Australia 26**Stictocephala bisonia**, distribution, Russia 8316**Stictococcus sjostedti**

cocoa, Ghana 4645

Formicidae 4645

**Stigmaeidae**, coffee, habitats, Queensland 5596**Stigmaphyllon**, Formicidae, interactions 8353**Stigmasterol**, effects, *Anthonomus grandis* 1404**Stigmatomyces**, hosts, *Anastrepha striata* 1250**Stigmella malella**, pheromones 9652**Stigmus solskyi**

*Ailanthus altissima*, Spain 10002

morphology 10002

**Stipa comata**, extracts, antifeedants, Acrididae 7719**Stipa grandis**

Acrididae, Nei Menggu 8298

*Chorthippus dubius*

Nei Menggu 8675

yield losses 8675

**Stipa tenacissima**, arthropods, Algeria 11759**Stirellus bicolor**

maize 7684

plant pathogens, transmission 7684

**Stiretrus anchorago**

distribution, Mexico 1847

taxonomy 1847

**Stiretrus erythrocephalus**, hosts, insect pests 336**Stirofos** (see Tetrachlorvinphos)**Stizostedion vitreum**, pesticides, residues 6363**Stobaera pallida**

*Baccharis*, North America 827

control, *Baccharis halimifolia*, evaluation 827

**Stolas ingrata**

ecology, population dynamics 5716

*Gutierrezia*, Argentina 5716

**Stomaphys longirostris**

*Acer campestre*, UK 11999

distribution, UK 11999

*Lasius brunneus*, interactions 11999

**Stomp** (see Pendimethalin)**Stone fruits**

arthropod pests, Italy 7805

*Carpophilus*, New South Wales 7822

integrated pest management, Czech

Republic 5532

*Myzus persicae* 9847

odours, attractants, *Carpophilus* 7822

pest control, Italy 7804

Tephritidae, South Africa 3533

**Storage mites**, cereal grains, Italy 6879**Stored products**

Dermestidae, China 11037

habitats, *Bracon hebetor*, USA 9613

integrated pest management, USA 6877

Isoptera, damage 7368

pest control 3702, 6934

Switzerland 3703

**Stored products pests**

Australia, reports 855

biology 855, 2816

cereals, commodities 10044

control 2817, 8016

chemical control 395, 835, 847, 2816

Germany 1761, 12064

heat treatment 1774

ecology 855

population dynamics 4809, 6871

fungi, interactions 6878

monitoring 837

physiology, pheromones, reviews 11191

predators 6168

quarantine 6866

sampling 2816

Switzerland 3701

USA 6168

**Strategus validus**

genetics, karyotypes 5983

Sao Paulo 5983

**Stratiolaelaps miles**

biology 9274

control, *Bradysia*, ornamental plants 793

ornamental plants, greenhouses, UK 793

prey, arthropod pests 9274

**Stratiomyidae**, distribution, Andaman and Nicobar Islands 1586**Straw**, insecticides, residues, determination 6498**Strawberries** (*Fragaria* spp.)

Acari 7833

Aphididae, Yugoslavia 11869

arthropod pests

Finland 7834

Florida 11868

Germany 10863

Italy 11870

commodities, pesticides, residues 5736

fields

*Neoseiulus fallacis*, Oregon 9859

*Orius laevigatus*, Spain 6664

*Phytoseiulus persimilis*, Florida 4573,

11867

*Frankliniella occidentalis*, Spain 6664

greenhouses

predatory arthropods, Germany 10863

predatory mites 5174

insect pests

certification 10864

Maine 7835

insecticides, residues 2323

integrated pest management 655

New York 9842

**Strawberries cont.**

*Lygus hesperus* 5537

California 8772-8773

*Lygus lineolaris*

damage 7832

Maine 5538

*Otiorynchus*, Poland 6663

*Otiorynchus sulcatus* 7398

Germany 4574

pest control 868

Washington 1550

pesticides, residues, determination 12067

*Phyllobius pomaceus*, Germany 7830

Scarabaeidae

Chile 9858

Jiangsu 7831

*Tetranychus urticae* 87

Florida 4573

Oregon 9859

resistance 2399, 8771

**Streams**, insecticides, runoff 9634**Strepsicrates ejectana**

control 2658

*Eucalyptus deglupta*

damage 2658

Philippines 2658

**Streptanthus polygaloides**, insects 4767**Streptocephalus dichotomus**, insecticides,

toxicity 5322

**Streptococcus faecalis**, hosts, *Manduca sexta* 4912**Streptomyces griseus**, insecticidal properties 6223**Streptopelia risoria**, insecticides, effects 7588**Strigilina bifida**

biology, life history 5689

control, chemical control 5689

*Magnolia biloba*, Zhejiang 5689

parasitoids 5689

**Strobelia baccharidis**

ecology, population dynamics 5716

*Gutierrezia*, Argentina 5716

**Strongellsea castrans**, hosts, *Delia* 7767**Strongylotes**

*Chusquea*, Panama 7001

morphology 7001

**Strouhalium**

Asia 2832

taxonomy 2832

**Structural timbers**, *Microstigmus*, Brazil 10**Stryphnodendron adstringens**, extracts,

effects, *Atta sexdens* 7999

**Sturnella neglecta**, prey, insects 2020**Sturnus vulgaris**

insecticides, effects 8552, 11613, 11642

pesticides

effects 1341

residues 5332

**Stylogecoris**, taxonomy 3752**Stylogecoris biroi**, synonyms, of *Geocoris*

*hakeae* 3752

**Stylogecoris maculatus**, habitats, Queen-

sland 3752

**Stylops melittae**

genetics, ribosomal RNA 10220

phylogeny 10220

**Styrax benzoin**, *Cerataphis fransseni*, galls 4765**Styrax japonica**

*Ceratovacuna japonica*

galls 6774

Honshu 6774

habitats, *Pseudoscyrnus sylvaticus*, Hon-

shu 6774

**Styrax obassia**, *Pidonia tsuyukii*, Honshu

5707

**Styrax paralleoneura**

*Astegopteryx roepkei*

galls 10956

Indonesia 10956

**Styrax serrulata**

*Tuberaphis leeuweni*

galls 10111

Indonesia 10111

**Styrax suberifolia**

*Pseudoregma bambucicola*

galls 5812

Taiwan 5812

**Suaeda vera**, *Dasyhelea*, Spain 9738**Subalpine fir** (see *Abies lasiocarpa*)



**Subclytina rotundiventris**, hosts, *Elasmucha grisea* 11985

**Subterranean clover** (see *Trifolium subterraneum*)

**Subtropical crops**, commodities, insect pests, control 2395

**Subtropical fruits**  
*Ceratitis capitata*, Israel 8778  
 commodities, *Ceratitis capitata* 8778  
 pest control 2577

**Sucrose**  
 effects  
*Chilo partellus* 2185  
 Noctuidae 5925  
 phagostimulants, Noctuidae 5926

**Sudan**  
*Acacia*, Coleoptera 6776  
 cotton, insect pests 4668  
 crops, pollinators 1198  
 food plants, *Schistocerca gregaria* 5710  
 groundnuts, Isoptera 10387  
 Isopoda 2040  
 Isoptera 10387  
 sorghum, *Helicoverpa armigera* 1449

**Sudan grass** (see *Sorghum sudanense*)

**Sugar**  
 effects, *Chilo partellus* 2185  
 mixtures, attractants, *Anastrepha suspensa* 9659

**Sugarbeet** (*Beta vulgaris* var. *saccharifera*)  
*Agrotis segetum*, Sweden 9657  
 Aphididae  
 Belgium 698  
 Czech Republic 5589  
 Europe 2610  
 arthropod pests, Netherlands 11954  
*Atomaria linearis* 2611  
*Bemisia* 9823  
*Bothynoderes punctiventris*, Hungary 1618  
*Circulifer tenellus*, California 5802  
 fields  
 arthropods, Germany 5401  
 Coccinellidae, Yugoslavia 6166  
*Diachasma hispanicum*, Spain 2612  
*Fumibotys fomalidis*, USA 1183  
*Hulstia undulata*, Idaho 1183  
 insect pests  
 biology 6726  
 California 4664  
 control 6726  
 Czech Republic 5588, 6726  
 Germany 10907  
 Italy 11953  
 resistance 9930  
 Shanxi 9929  
 insecticides, formulations 11572  
*Isotoma notabilis*, Germany 6088  
*Pegomya cunicularia*, Spain 2612  
*Pemphigus betae* 8331  
 pest control  
 Netherlands 697  
 Poland 9931  
 pest resistance 6283  
*Piesma quadratum*, Poland 696  
 soil, Collembola 10254  
*Spodoptera exigua*  
 damage 4640  
 economic thresholds 7880  
 Hunan 8819  
 Jiangsu 7880  
*Spodoptera litura*, Uttar Pradesh 6406  
*Zabrus tenebrioides*, Yugoslavia 1619

**Sugarcane** (*Saccharum officinarum*)  
*Abacarus sacchari*, West Bengal 5584  
*Aleurolobus barodensis* 11945  
 Gujarat 11944  
 India 3590  
 Maharashtra 1613  
 Tamil Nadu 1614, 3596  
 Aleyrodidae, India 1615  
*Anomala albopilosa*, Japan 4935  
*Antitrogon consanguineus* 5585  
*Antitrogon planiceps*, New South Wales 1612  
*Aphaenogaster pythia*  
 New South Wales 2605  
 resistance 2605  
 Aphididae, Queensland 2608  
*Casiniomera licusare*, Brazil 10903  
*Cavelerius saccharivorus*, Jiangxi 7878

**Sugarcane cont.**

*Ceratovacuna lanigera*, Taiwan 2606  
 Chilo, Uttar Pradesh 695  
*Chilo auricilius*  
 India 4638  
 Yunnan 2471  
*Chilo infuscatellus*  
 Indian Punjab 11948  
 resistance 9927  
 Taiwan 7875  
*Chilo sacchariphagus indicus*, Tamil Nadu 3595  
*Chilo tumidicostalis*, Assam 11952  
*Dactylispa setifera* 7106  
*Diaprepes abbreviatus* 11947  
*Diatraea saccharalis* 8814  
 Cuba 8817  
 Sao Paulo 1610  
 Elateridae, Florida 10904  
*Eldana saccharina* 7216  
 resistance 8818  
 South Africa 2609  
*Eoreuma loftini* 9925  
 Texas 6719-6720, 9926  
*Exomala orientalis*, Honshu 1892  
 extracts, attractants, *Rhynchophorus cruentatus* 4362  
 fields, predatory insects, Taiwan 2606  
 habitats, beneficial insects, Bihar 6718  
*Heteronychus arator*, Queensland 8816  
*Inopus rubriceps* 9924  
 Australia 9923  
 Queensland 1611  
 insect pests  
 Haryana 11951  
 India 3589  
 reports 2799  
 South Africa, reports 1783  
 Tamil Nadu 2222  
 Uttar Pradesh 8813  
 insecticides, residues 11946  
 Jamaica, reports 3717  
*Lepidiotia picticollis*, Queensland 7877  
 Lepidoptera  
 monitoring, traps 11949  
 Pakistan 11949  
 Uttar Pradesh 5586  
*Leptodictya tabida*  
 Florida 4636  
 resistance 4636  
*Leucopholis lepidophora*, Maharashtra 694, 3015  
*Mahasena graminivora*, Uttar Pradesh 10905  
*Melanaspis glomerata*  
 Madhya Pradesh 7879  
 Uttar Pradesh 10906  
 yield losses 7879  
*Metamasius hemipterus*, Florida 2239  
*Myelobia atroparsellus*, Venezuela 7876  
 pest control, reports 859, 2800  
 pest resistance, reports 2801  
 plantations  
 arthropods, Texas 693  
 beneficial insects, India 3593  
*Epiricania melanoleuca*, India 3594  
 parasitoids, Papua New Guinea 4637  
*Poeciloseris pictus* 2403  
*Polyocha depressella*  
 Bangladesh 6721  
 Haryana 6723  
*Pseudococcus saccharicola*, Andaman and Nicobar Islands 9922  
 Pyralidae  
 Gujarat 3591  
 Haryana 1616  
 Indonesia 6724  
 Pakistan 3588, 6725  
 resistance 6724  
*Pyrilla perpusilla*  
 Gujarat 3592, 11943  
 India 3593-3594, 5587  
 reviews 5583  
 Uttar Pradesh 6722  
 yield losses 5587  
*Saccharicoccus sacchari*, Queensland 2604  
 Scarabaeidae  
 Australia 11950  
 reviews 11950

**Sugarcane cont.**

*Scirpophaga excerptalis*  
 Bihar 6718, 9921  
 India 4639  
 Indian Punjab 8815  
 yield losses 8815  
*Sesamia griseocens*, Papua New Guinea 4637  
*Thriambus reynaudi*, Reunion 692  
*Trochorhopalus sacchari*, India 2607

**Sugarcane mosaic potyvirus**, vectors, Aphididae 2608

**Sugars**  
 effects, *Psylliodes chrysocephala* 4620  
 mixtures, effects, *Choristoneura occidentalis* 4746

**Suilla lurida**  
 biology 11806  
 garlic  
 damage 11806  
 Poland 11806

*Suillus luteus*, *Proisotoma minuta* 5676

**Sulfluramid**, control, *Linepithema humile* 2099

**Sulfotep**  
 nontarget effects, Araneae 6169  
 residues  
 determination 3682  
 mushrooms 3682  
 determination 3682

**Sulfur**  
 control  
 arthropod pests, jute 5619  
*Brevipalpus*, mandarins 2578  
*Galleria mellonella*, comb honey 3297  
*Phytoptus avellanae*, hazelnuts 4613  
*Tetranychus ludeni*, okras 5513  
*Tropilaelaps clareae*, *Apis mellifera* 10388  
 effects  
 cereals, insect pests 3421  
*Leptinotarsa decemlineata* 8471  
 nontarget effects, mites 8774

**Sulfur dioxide**, effects, Aphididae 5664-5665, 8922

**Sulfuryl fluoride**  
 control, Rhinotermitidae, wood 12065  
 mixtures, toxicity, Isoptera 9588  
 toxicity, Isoptera 9588

**Sulprofos**  
 control  
 Noctuidae, cotton 11969  
*Spodoptera littoralis*, cotton 2626  
 mixtures, control, Noctuidae, cotton 11969  
 resistance, *Heliothis virescens* 9584  
 toxicity, *Apis mellifera* 3361

**Sultanas** (see Raisins)

**Sumatra**  
*Isotomiella* 7294  
 Loranthaceae, *Tuberaphis takenouchii* 4832

**Sumicidin** (see Fenvalerate)

**Summer squashes** (see *Cucurbita maxima*; *Cucurbita pepo*)

**Sunagor** (see Dimethoate)

**Sunda Islands**, *Euagathis* 9093

**Sunflower oil**, control, *Sitophilus granarius*, wheat, commodities 6816

**Sunflowers** (*Helianthus annuus*)  
 Aphididae 4510  
*Aphis fabae*, Hungary 7864  
*Bemisia tabaci*, Tamil Nadu 7863  
 beneficial insects  
 pollination 1198  
 Sudan 1198  
*Brachycaudus helichrysi*  
 France 6705  
 Yugoslavia 1597  
*Brevicoryne brassicae*, interactions 4510  
*Cylindrocopturus adspersus*, North Dakota 681, 6707  
*Diabrotica barberi*, South Dakota 1596  
*Faustinus apicalis*, Colombia 5600  
 fields  
 beneficial insects, Kenya 6427  
 Coccinellidae, Yugoslavia 6166  
 Diptera, Yugoslavia 1597  
 insects, Hungary 7864



**Sunflowers cont.**

- fields cont.  
*Nealiolus curculionis*, North Dakota 681  
*Orius*, Israel 8805  
 predatory insects, Kenya 6050  
*Frankliniella occidentalis*, Israel 3579, 8805  
*Helicoverpa*, Queensland 5388  
*Helicoverpa armigera* 7638, 9429  
 India 1521  
 Kenya 6050, 6427  
 South Africa 10536  
 insect pests, France 1595  
*Listronotus setosipennis* 3288  
 pest control  
 Croatia 1594  
 Poland 2593  
*Smicronyx fulvus* 4621  
 damage 8804  
 North Dakota 8804  
*Spilarctia obliqua* 2893  
 India 7865  
*Spodoptera litura* 7639  
 Tenebrionidae, Queensland 5396  
*Thysanoplia orichalcea* 6706  
*Zygogramma*, India 1750-1751  
*Zygogramma bicolorata*, India 1748-1749
- Sunn hemp** (*Crotalaria juncea*)  
*Eurygaster integriceps*  
 damage 3624  
 Iran 3624
- Suocerathrips*, taxonomy, new genus 2852
- Suocerathrips linguis*  
*Sansevieria*, UK 2852  
 taxonomy, new species 2852
- Supercypermethrin**  
 effects  
*Saccharomyces cerevisiae* 5348  
*Salmonella typhimurium* 5349
- Supputius cincticeps*  
*Eucalyptus*, forests, Brazil 1661  
 prey, Lepidoptera 1661
- Supputius typicus*  
 distribution, Mexico 1847  
 taxonomy 1847
- Supracide** (see Methidathion)
- Surasmaris*, taxonomy, new genus 8066
- Surasmaris longirostris*  
 Costa Rica 8066  
 taxonomy, new species 8066
- Surface water**  
 insecticides, residues 2379  
 pesticides, residues 499, 9647
- Surfactants**  
 control, *Lymantria dispar*, forest trees 2652  
 toxicity, *Myzus persicae* 4273
- Suriname**, *Bactrocera carambolae* 9897
- Swartzia ingifolia*, *Coptotermes*, Amazonia 5628
- Swaziland**  
*Citrus*  
 orchards, Phytoseiidae 1567  
*Scirtothrips aurantii* 1567
- Sweden**  
*Agrotis segetum* 9537  
 barley, *Rhopalosiphum padi* 6453  
*Betula*, insect pests 4691  
*Bibio* 10116  
 black currants, arthropod pests 10861  
 cabbages, insect pests 5488  
 Carabidae, peatlands 11349  
 cereals  
 fields, *Pterostichus* 4396  
*Rhopalosiphum padi* 4396, 5400  
 Coleoptera 10327  
 crops  
*Acyrtosiphon pisum*, predators 586  
 insect pests 1300  
 Diptera 10298  
*Eresus cinnabarinus* 10301  
*Eriocrania sparrmannella* 11686  
 grapes, *Chlorophorus varius* 10302  
 grasslands, *Phyllobius* 11760  
 habitats, *Metroptera bicolor* 10748  
 insecticides, usage 2227  
*Lathyrus vernus*  
 invertebrates 8950  
 Mollusca 8950-8951  
 Lepidoptera 10299

**Sweden cont.**

- mammals, pesticide residues 1342  
 microbial pesticides, legislation 11543  
 Opiliones 1142  
*Pararge aegeria* 3921, 9333  
 peas, *Cydia nigricana* 4480  
 pesticides  
 legislation 10523  
 usage 6306, 10523  
*Picea abies*  
 habitats, predators 5152  
*Ips* 1698  
 Pinopsida  
 Coleoptera 1683  
*Hylobius abietis* 6779  
*Pinus sylvestris*  
 Curculionidae 6784  
 insect pests 2390  
*Neodiprion sertifer* 7949  
 pesticide residues 5671  
*Tomicus* 761  
*Tomicus piniperda* 2702  
 natural enemies 2390  
 plant protection, conferences 10063  
 potatoes, *Agriotes obscurus* 6561  
 rape  
*Ceutorhynchus sulcicollis* 3574  
 fields, insects 8801  
*Meligethes* 8801  
*Rhopalosiphum padi* 5036  
*Salix viminalis*  
*Dasineura ingeris* 8880  
*Dasineura marginemtorquens* 4705  
 soil, *Bacillus thuringiensis* 10404  
 sugarbeet, *Agrotis segetum* 9657  
*Sylvicola cinctus* 389  
*Tetrao urogallus*, diets, Lepidoptera 11470  
 Tydeus 8057  
 wheat, pest control 2410  
 wild plants, pollinators 8967
- Swedes** (*Brassica napus* var. *napobrassica*)  
 Collembola, New Zealand 6578  
*Myzus persicae* 5384  
*Nysius huttoni*, New Zealand 6579  
*Plutella xylostella*, China 3420
- Sweet cherries** (see Cherries)
- Sweet corn** (see Maize)
- Sweet oranges** (see Oranges)
- Sweet potato feathery mottle potyvirus**,  
 vectors, Aphididae 11801
- Sweet potatoes** (*Ipomoea batatas*)  
*Anomala cuprea*, Japan 8718  
 arthropod pests  
 damage 11801  
 Southern Africa 11801  
*Bemisia argentifolii* 11798  
*Bemisia tabaci*, Costa Rica 629  
*Chondracris rosea*, Anhui 3295  
 Coleoptera  
 damage 611  
 Honshu 611  
 commodities  
*Cylas formicarius* 9790  
 damage 11053  
 India 11053
- Cylas*  
 Cameroon 8717  
 resistance 8717  
 yields 8717  
*Cylas formicarius* 4483, 4502  
 Florida 2517  
 Jamaica 2518  
 Japan 4500-4501, 7763  
 Kerala 3511, 11802  
 Maharashtra 5481, 11804  
 Philippines 4988  
 resistance 2519, 3511-3512, 7764, 8715, 11800  
 Taiwan 612  
 Tamil Nadu 3512  
*Cylas formicarius elegantulus*, Venezuela 8716  
*Euscepes postfasciatus*  
 Paraguay 11803  
 Ryukyu Archipelago 10792  
 insect pests  
 Kenya 11799  
 reports 2797  
 South Carolina 5482  
 pest control, Sierra Leone 1499

**Sweet potatoes cont.**

- Rhyssomatus pilosipes*  
 Argentina 9789  
 damage 9789  
*Tetranychus okinawanus*, Ryukyu Archipelago 10107
- Swietenia humilis*, extracts, antifeedants,  
*Tenebrio molitor* 6400
- Swietenia macrophylla*  
*Hypsipyla grandella*  
 Cuba 1652  
 damage 1652  
*Hypsipyla robusta*, Uttar Pradesh 1676
- Swietenioideae**, extracts, antifeedants, *Peridroma saucia* 10018
- Swiss chard** (see Spinach beets)
- Switzerland**  
*Agrotis ipsilon* 6084  
*Apis mellifera*, ectoparasites 1287  
 apples  
 Aphididae, predators 8760  
 arthropod pests 1540, 5528  
*Cydia pomonella* 8756  
*Hoplocampa testudinea* 5529, 6647  
 insect pests 1536  
 Araneae 2033  
*Arianta arbustorum* 3959  
 arthropods 1163  
*Castanea sativa*, insect pests 749  
*Ceratitis capitata* 5374  
 cereals  
 fields  
 Carabidae 4399  
 predatory arthropods 5160  
 Cupressaceae, *Argyresthia* 10979  
 Elmidae 2038  
 entomophilic nematodes 7407  
 forest trees, insect pests 2645  
*Formica lugubris* 973  
 grapes  
*Lobesia botrana* 11878  
 Tortricidae 9862  
*Viteus vitifoliae* 4576  
 insect pests 9863  
 leeks, *Acrolepiopsis assectella* 97  
*Leontopodium alpinum*, pollinators 8934  
 Lepidoptera 254, 9363  
 meadows, *Agriotes sputator* 4771  
*Melolontha melolontha* 1969  
 mosses, arthropods 10580  
 Noctuidae 10300  
 orchards  
 arthropods 2547  
 predatory arthropods 8750  
 ornamental conifers, Coleoptera 12031  
 ornamental woody plants, *Quadraspidiotus permicosus* 12030  
 peas, *Contarinia pisi*, parasitoids 9759  
*Picea abies*, *Cinara pilicornis* 4738  
*Pieris* 7147  
 pome fruits, *Quadraspidiotus* 1535  
 potatoes, *Leptinotarsa decemlineata* 6558  
 Psocoptera 10028  
 raspberries, arthropod pests 11866  
 Staphylinidae 2032  
 stored products pests 3701  
 Tephritidae, books 3730  
 vineyards, *Trogoxylon impressum* 12071  
 weeds, beneficial arthropods 2759  
 wheat, fields, predatory arthropods 9678
- Syagrus romanzoffiana*, Curculionidae, Brazil 11291
- Sycamores** (see *Acer pseudoplatanus*)
- Sycoecus**  
*Ficus*  
 Africa 8080  
 pollination 8080  
 taxonomy 8080
- Sycophila**  
 biology 3743  
 grasses, UK 3743  
 morphology 3743  
 taxonomy 3743
- Sycophila dubia*  
 hosts, *Disholcaspis quercusmamma* 8874  
*Quercus*, habitats, Colorado 8874
- Sycophila submutica*  
*Centaurea*, Europe 1225  
 hosts, *Isocolus* 1225
- Sycophila variegata*  
 hosts, *Dryocosmus kuriphilus* 10366



- Sycophila variegata* cont.  
Korea Republic 10366
- Syllepte derogata*  
Japan 3769  
pheromones 3769  
taxonomy, chemotaxonomy 3769
- Sylvicola cinctus*  
control, biological control 389  
Sweden 389
- Sylviidae*, Formicidae, interactions 2088
- Symbionts**  
*Acyrtosiphon pisum*, interactions 5940, 6326  
*Tagosodes orizicolus*, interactions 992  
*Symmerista*, broadleaves, USA 1151  
*Symmerista albifrons*, distribution, USA 1151  
*Symmerista canicosta*, distribution, USA 1151  
*Symmerista leucitys*, distribution, USA 1151  
*Symmetrischema tangolias*  
control 3506  
potatoes, Peru 3506
- Sympherobius sanctus*  
Fabaceae, Israel 1723  
prey, Hemiptera 1723
- Symphylida**  
ecology, population dynamics 7946  
*Pinus koraiensis*, Korea Republic 7946
- Symphyta**  
distribution, Greece 911  
forests, Scandinavia 5620  
parasitoids 4840  
Taiwan 39  
taxonomy 911, 1803
- Symphylum officinale*  
Araneae, Switzerland 2759  
insects, Switzerland 2759
- Sympiesis**  
*Eucalyptus cloeziana*, forests, Minas Gerais 7913  
hosts, *Lethata anophthalma* 7913
- Sympiesis bimaculatipennis*  
hosts, *Rhopobota naevana* 9855  
*Vaccinium*, fields, British Columbia 9855
- Sympiesis dolichogaster*  
groundnuts, fields, Maharashtra 11938  
hosts, *Aproaerema modicella* 11938
- Sympiesis marylandensis*  
apples  
orchards  
British Columbia 8758  
California 2551  
Connecticut 9837  
ecology, distribution 9837  
hosts  
*Phyllonorycter* 645, 2551  
*Phyllonorycter craiegella* 9837  
*Phyllonorycter mespilella* 8758  
insecticides, effects 2551
- Sympiesis sericeicornis*  
biology, behaviour 7209  
hosts, *Phyllonorycter malella* 7209
- Symplocos martinicensis*, *Lamponius portoricensis*, Puerto Rico 3687
- Symposia** (see Conferences)
- Symydobius americanus*  
*Betula papyrifera* 5636  
biology 5636
- Synacra**  
biology, reproduction 390  
Europe 10099  
hosts, *Bradysia paupera* 390  
taxonomy 10099
- Synacra brachialis*  
Europe 10099  
taxonomy 10099
- Synaemops rubropunctatum*  
prey, insect pests 11742  
rice, fields, Colombia 11742
- Synanthedon**  
*Pinus*  
Arizona 10963  
varietal reactions 10963
- Synanthedon castaneae*  
*Castanea dentata*, Connecticut 253  
distribution, Connecticut 253
- Synanthedon decipiens*  
distribution, Colorado 515  
pheromones 515
- Synanthedon myopaeformis*  
apples, Yugoslavia 1539  
monitoring, traps 1539
- Synanthedon scitula*  
control, biological control 2675  
*Cornus florida*, Maryland 2675
- Synanthedon tipuliformis*  
biology 1556  
Colorado 515  
pheromones 515, 2389, 2565  
red currants, Germany 1556  
*Ribes*, Hungary 2565
- Syncarpia*, *Wingia* group, Australia 6981
- Synclita oblateralis*, *Pistia stratiotes*, Florida 3694
- Syngaster lepidus*  
control, *Phoracantha semipunctata*, *Eucalyptus* 6814  
hosts, *Phoracantha* 5172  
taxonomy, synonyms, *Iphiaulax rubriceps* 5172
- Synomones**  
attractants, *Phytoseiulus persimilis* 4355  
effects, Phytoseiidae 4354
- Synonycha grandis*  
prey, *Ceratovacuna lanigera* 2606  
sugarcane, fields, Taiwan 2606
- Synopeas**  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditchiae* 5155
- Synopeas rhanis*  
Germany 1759  
hosts, *Dasineura urticae* 1759
- Syntermes**  
ecology, population dynamics 3476  
rice, Goias 3476
- Syntermes chaquimayensis*  
Amazonas 4690  
biology, behaviour 4690
- Syntermes molestus*  
Amazonas 4690  
biology, behaviour 4690
- Syntomeida epilais*, biology, behaviour 7191
- Syntomus truncatellus*  
ecology 1063  
urban areas, Germany 1063
- Synuchus nivalis*  
monitoring, traps 10693  
wheat, fields, Finland 10693
- Syria**  
barley, *Porphyrphora tritici* 11726  
cereals  
fields, insects 3426  
insect pests 11714  
wheat, Aphididae, natural enemies 6437
- Syrphidae**  
arable land, Germany 1223  
biology 2111, 7676  
behaviour 4408, 7185, 8967  
cabbages, fields, New Zealand 6577  
cereals, fields, Syria 3426  
cotton, fields, Jiangsu 715  
cultural methods, effects 6577  
ecology 2111  
habitats 832, 7242  
population dynamics 1597, 2576, 6437, 7657, 7759, 8631-8632  
Europe 4894  
farming systems, effects 1428  
hedges  
Germany 2113  
UK 7185  
herbicides, effects 1223  
Italy 2111  
maize, fields, UK 7676  
microorganisms 3004  
morphology 2111  
natural enemies 2111  
nature conservation, Netherlands 1115  
*Nerium oleander*, Honshu 797  
orchards, Switzerland 8750  
peaches, orchards, Italy 9850-9851  
pears, orchards, Italy 2562  
pesticides, effects 2111, 2576  
*Polygonum thunbergii*  
Honshu 5727  
pollination 5727  
potatoes, habitats, Hokkaido 7759
- Syrphidae** cont.  
prey  
Aphididae 1428, 6437, 7242, 7657, 7759, 8632, 8826  
Aphidoidea 2111  
*Aphis gossypii* 2576  
*Brachycaudus helichrysi* 1597  
*Cacopsylla pyri* 2562  
*Eriosoma lanigerum* 4555  
insect pests 7754  
*Myzus varians* 9851  
*Phthorimaea operculella* 7755  
*Sitobion avenae* 4408  
Romania 2037  
*Silene dioica*  
pollination 6861  
Scandinavia 6861  
Slovakia 3105  
sunflowers, fields, Yugoslavia 1597  
taxonomy 897, 4894  
phylogeny 1801  
tobacco, fields, Greece 8826  
watermelons, fields, Honshu 2576  
weeds  
habitats, UK 832  
Switzerland 2759  
wheat  
fields  
Germany 1428, 7657, 8631-8632  
Syria 6437  
UK 4408, 7496  
wild plants  
Europe 8967  
pollination 8967  
UK 7659  
woodlands, Netherlands 1115  
Yugoslavia 11383
- Syrphoidea**, taxonomy, phylogeny 1801
- Syrphophagus*, taxonomy 1849
- Syrphophagus aeruginosus* group, taxonomy 1849
- Syrphus**  
*Boronia megastigma*, habitats, Tasmania 1737  
prey  
*Ceratovacuna lanigera* 2606  
*Ctenarytaina thysanura* 1737  
sugarcane, fields, Taiwan 2606
- Syrphus corollae* (see *Eupeodes corollae*)
- Systasis encyrtoides*  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditchiae* 5155
- Systena argentinensis*  
biology 182  
field crops, Argentina 182
- Systena basalis*  
biology 1479  
ecology, population dynamics 7738  
*Phaseolus*, Cuba 1479  
*Phaseolus vulgaris* 7738
- Systena blanda*  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
sweet potatoes, South Carolina 5482
- Systena elongata*  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
sweet potatoes, South Carolina 5482
- Systena frontalis*  
biological control agents, evaluation 5482  
control  
biological control 5482  
chemical control 5482  
pathogens 5482  
sweet potatoes, South Carolina 5482
- Systole coriandri*  
*Coriandrum sativum*  
Chile 11006  
damage 11006  
distribution, Chile 11006
- Systox** (see Demeton)
- Syzygium*, *Bactrocera dorsalis*, Andaman and Nicobar Islands 11887
- Syzygium aromaticum* (see Cloves)



- Syzygium cumini**  
insect pests, Uttar Pradesh 9662  
*Poecilocus pictus* 2403
- Tabebuia chrysotricha**, insects, Sao Paulo 8358
- Tabebuia ochracea**, insect pests, Minas Gerais 3647
- Tachardiaephagus tachardiae**  
*Butea monosperma*, habitats, Bihar 11431  
ecology, population dynamics 11431  
hosts, *Kerria lacca* 11431
- Tachardiella trilobata**, taxonomy, to *Austrotachardiella* 6671
- Tachigali myrmecophila**  
*Pseudomyrmex concolor*  
Amazonas 2683  
interactions 2683
- Tachinidae**  
*Ailanthus*, forests, India 2673  
biology 388  
control, Lepidoptera 388  
ecology 1162, 4677  
fauna, Germany 1162  
forests, Costa Rica 4677  
hosts  
*Atteva fabriciella* 2673  
insects 4677  
*Lemyra* 700  
*Neoleucinodes elegantalis* 3565  
*Phyllophaga anxia* 302  
*Tibraca limbativentris* 9725  
*Trypoxylon rogenhoferi* 9264  
Quebec 302
- Tachinus**, taxonomy, to *Nitidotachinus* 1798
- Tachycineta bicolor**, insecticides, residues 10655
- Tachylepus tridentatus**, pesticides, residues 8558
- Tachyporus**  
biology, behaviour 4408  
prey  
Aphididae 5161  
*Sitobion avenae* 4408  
wheat, fields, UK 4408
- Tachyporus hypnorum**  
barley, fields, Germany 10702  
fungicides, effects 10702  
insecticides, toxicity 4308, 10609  
prey, Aphididae 5161  
UK 4308
- Tachyporus obtusus**, prey, Aphididae 5161
- Tachysphex**  
biology 4852  
New Zealand 4852  
Sri Lanka 6986  
taxonomy 4852, 6986
- Tachytes**, taxonomy 1816
- Tadius erirhinoides**, distribution, Thailand 12040
- Taeniopoda eques**  
biochemistry, defensive secretions 2921  
biology, behaviour 2921, 5059, 8259  
food plants, Arizona 8259
- Taeniothrips inconsequens**  
*Acer*, Vermont 5658  
*Acer saccharum*  
damage 2674  
Pennsylvania 2677, 10955  
Vermont 2674  
distribution 1150  
ecology, distribution 10955  
food plants 1150  
pathogens 5658
- Taeniothrips meridionalis**  
biology 1548  
control, chemical control 1548  
peaches, Italy 1548
- Taeniothrips vulgarissimus**, grasslands, Poland 8672
- Tagetes erecta**, *Helicoverpa armigera*, India 1521
- Tagetes minuta**, extracts, toxicity, *Zabrotes subfasciatus* 9010
- Tagetes patula**, *Bemisia tabaci* 3988
- Tagosodes cubanus**  
parasitoids 3470  
rice, Colombia 3470  
taxonomy 2862
- Tagosodes orizicolus**  
control  
biological control 11742
- Tagosodes orizicolus cont.**  
control cont.  
integrated control 9724  
parasitoids 3470  
pesticides, toxicity 4251  
predators 11742  
rice  
Colombia 3470, 9724  
damage 2862  
symbionts, interactions 992  
taxonomy 2862
- Taiwan**  
*Lobesia* 5092  
*Agrilus planipennis* 11133  
*Amiota* 6987  
*Ascogaster* 11112  
*Bactrocera cucurbitae* 3308  
*Bambusa multiplex*, *Lepidomyctides nagaii* 6836  
*Bombyx mori* 4150  
cabbages, *Plutella xylostella*, parasitoids 2525  
cereals, *Pomacea canaliculata* 3469  
Cucurbitaceae, Aphididae 10837  
*Drosophila* 3893  
Epilachninae 5789  
*Ficus*, *Ficotarsonemus* 5544  
Formicidae 290  
*Liriomyza* 38  
*Liriomyza trifolii* 2224  
parasitoids 298  
*Litchi chinensis*  
*Conopomorpha sinensis* 10885  
orchards, Hymenoptera 10885  
Loranthaceae, *Tuberaphis takenouchii* 4832  
maize  
*Ostrinia furnacalis* 10718  
parasitoids 2421  
man, pesticide residues 2339  
*Nassophasis aspericollis* 12040  
*Nitidotachinus* 1798  
onions, *Spodoptera exigua* 6327  
peaches, Acari 2563  
pears, *Aphanostigma piri* 3538  
peas, *Liriomyza bryoniae* 2492  
*Pseudoregma bambucicola* 5812  
rice, *Chilo suppressalis* 5438  
*Sibatanocephyrus kuafui* 5648  
Sphingidae 6100  
*Spodoptera litura* 368  
sugarcane  
*Ceratovacuna lanigera*, predators 2606  
*Chilo infuscatellus* 7875  
sweet potatoes, *Cylas formicarius* 612  
Symphyta 39  
Tephritidae 3101  
*Tetranychus urticae* 2226  
Thysanoptera 7292  
tobacco, Aphididae 2622  
*Zebe* 6170  
*Ziziphus mauritiana*, *Panonychus citri*, predators 7859
- Tajikistan**  
apples, *Callima dushanbella* 2555  
*Chorthippus* 5123  
integrated pest management 6915
- Taleporia tubulosa**  
forest trees, Austria 5028  
parasitoids 5028
- Talinum triangulare**, *Phenacoccus manihoti*, resistance 5480, 8712
- Talitridae**  
New Zealand 4861  
taxonomy 4861
- Tall oil**, effects, *Peridroma saucia* 2255, 4380
- Talstar** (see Bifenthrin)
- Tamarindus indica**  
*Caryedon serratus* 8890  
Karnataka 2680  
insect pests, Tamil Nadu 5779-5780  
*Oxyrachis sinensis*, Yunnan 5805
- Tamarix**, habitats, Chrysopidae, Spain 4674
- Tamarix canariensis**, *Dasyhelea punctiventris*, Spain 9738
- Tamarix nilotica**  
Eriophyidae  
Egypt 10949  
galls 10949
- Tamarix leucaenae**  
biology, reproduction 2128  
hosts, *Heteropsylla cubana* 2128, 7348  
*Psyllaephagus yaseeni*, competition 7348
- Tamarix radiata**  
biology  
environmental factors 2105  
reproduction 3216  
diets 10336  
ecology, population dynamics 2105  
hosts, *Diaphorina citri* 2105, 3216, 10336  
rearing techniques 10336
- Tamaron** (see Methamidophos)
- Tanacetum vulgare**, *Coleophora caelebipennella*, Europe 584
- Tanacetum, Europsella**, Holarctic Region 11127
- Tanacetum argenteum**, extracts, antifedants, *Spodoptera littoralis* 3413
- Tanacetum cinerariifolium**, insecticidal properties 260
- Tanacetum vulgare**  
beneficial arthropods, Switzerland 2759  
extracts  
attractants, *Lobesia botrana* 11019  
effects, *Lobesia botrana* 5694  
odours, effects, *Myzus persicae* 7981
- Tanaostigmodes**, distribution, Afrotropical Region 8054
- Tanaostigmodes tambotis**  
biology, life cycle 8054  
*Spirostachys africana*  
galls 8054  
South Africa 8054  
taxonomy, new species 8054
- Tandonia budapestensis**, pathogens 350
- Tandonia sowerbyi**, pathogens 350
- Tangelos**, *Ceroplastes destructor*, New Zealand 1568
- Tangerines** (see Mandarins)
- Tannins**  
effects  
Acrididae 7719  
*Bacillus thuringiensis* subsp. *kurstaki*, pathogenicity 9512  
insect pests 4792  
*Malacosoma disstris* 4948  
*Manduca sexta* 5858
- Tanymericus palliatus**, sugarbeet, Czech Republic 5588
- Tanysphyrus lemnae**, *Pistia stratiotes*, Florida 3694
- Tanzania**  
*Acacia drepanolobium*, insects 4463  
coconuts, *Pseudothrips wavyi*, predators 9915  
cotton, pest control 10926  
*Cupressus lusitanica*, *Cinara cupressi* 1705  
Diptera 10303  
groundnuts, arthropod pests 6713  
maize, insect pests 1435  
*Spodoptera exempta* 5069, 6277
- Tapinoma**  
prey, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440
- Tapinoma melanocephalum**  
coconuts, plantations, Tonga 10899  
distribution, Texas 6102  
prey, *Graeffea crouanii* 10899
- Tapinoma sessile**, biology, behaviour 3826
- Tapioca**, *Samia cynthia ricini* 6416
- Taraxacum croceum**  
Diptera  
Norway 5705  
pollination 5705
- Taraxacum officinale**  
*Atta cephalotes* 3955  
extracts, attractants, *Anomala octiescostata* 2766  
Gastropoda, UK 11009  
*Lygaenus kalmii*, California 825  
*Phanacis taraxaci*, galls 2760
- Taro** (see *Colocasia esculenta*)
- Tarsonemidae**, coffee, habitats, Queensland 5596
- Tarsonemus confusus**  
distribution, Korea Republic 12026



- Tarsonemus confusus** *cont.*  
ornamental woody plants, Korea Republic 12026
- Tarsonemus granarius**  
cereals, commodities 850  
control  
chemical control 9013  
controlled atmospheres 850  
ecology, environmental factors 9013  
wheat, commodities, Manitoba 9013
- Tarsonemus occidentalis**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus sasai**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus scarius**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus waiti**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Taxodium distichum**, *Archips argyrosipilus*, USA 11982
- Taxomyia taxi**  
ecology, population dynamics 1134  
parasitoids 1134  
*Taxus baccata*  
galls 1134  
UK 1134
- Taxonomy**  
books 892  
*Rhyacionia* 3761
- Taxus**, *Otiorynchus sulcatus*, Poland 6812
- Taxus baccata**  
habitats, parasitoids, UK 1134  
*Otiorynchus sulcatus*, Germany 4574  
*Taxomyia taxi*  
galls 1134  
UK 1134
- TDE**  
residues  
extraction 4336  
fishes 6363  
lakes 6383  
*Pseudacris crucifer* 9606  
rivers 2382, 7613  
sediment 1345  
water 2346
- Tea** (*Camellia sinensis*)  
*Acaphylla theae*  
China 8821  
Tamil Nadu 3132  
Aphidoidea, China 9936  
arthropod pests 854  
control 3597  
Tamil Nadu 3597  
West Bengal 5593  
*Aspidiotus*, Kenya 5590  
*Brevipalpus phenicis*, Indonesia 9934  
*Calacarus carinatus*, Kerala 7882  
*Caloptilia theivora* 6978  
*Ceroplastes ceriferus*, Guizhou 3599  
commodities  
insecticides, residues 10620  
pesticides, residues 7572  
pyrethroids, residues 6886  
*Diplopsocus*, Asia 14  
*Ectropis obliqua*, China 8823  
*Empoasca onukii*, Japan 10908  
*Euwallacea formicatus*, Tamil Nadu 10909  
extracts  
antifeedants, *Pieris rapae* 8822  
effects, *Drosophila melanogaster* 5865  
pesticides, adjuvants 10504  
habitats, *Mesochorella javensis* 6978  
*Helopeltis theivora*, West Bengal 5592  
*Heptophylla picea*, Honshu 11958  
*Homona magnanima*, Honshu 11579  
insect pests 2616  
Argentina 5594  
China 7883  
India 2615  
insecticides  
effects 699
- Tea** *cont.*  
insecticides *cont.*  
residues 7983, 10620  
Isoptera, Malawi 699  
*Lygus lucorum*  
Jiangsu 7881  
resistance 7881  
*Lygus spinolae*, China 9935  
*Mylokerinus aurolineatus*, Fujian 9933  
*Parametriotes theae*, China 9932  
pest control, India 867, 2614, 5591  
pesticides, residues 3598  
plantations  
*Apanteles*, China 8823  
Araneae, Hunan 8820  
beneficial arthropods, Guangdong 7883  
beneficial insects, China 8821  
*Neoseiulus longispinosus*, Honshu 449  
parasitoids, Japan 11956  
Syrphidae, India 8824  
Tachinidae, Hunan 8382  
*Pseudaulacaspis pentagona*, Japan 11955-11957  
*Scirtothrips dorsalis*, Japan 2613  
Sri Lanka, reports 854  
*Toxoptera aurantii*, India 8824  
**Teak** (*see Tectona grandis*)  
**Tebuconazole**, with chlorpyrifos, control, Lepidoptera 6715  
**Tebufenozide**  
analysis 7321  
control  
*Lobesia botrana*, grapes 9870  
*Spodoptera frugiperda*, maize 6461  
Tortricidae 6692  
effects  
*Chilo suppressalis* 4351  
*Choristoneura fumiferana* 11684  
*Cydia pomonella* 10549  
*Helicoverpa armigera* 2256  
insects 11683  
Lepidoptera, cell lines 9554  
*Spodoptera exigua* 691  
stored products pests 6875  
formulations 6337  
mixtures, *Spodoptera frugiperda*, toxicity 2272  
residues, environment 10973  
resistance, *Spodoptera littoralis* 8512  
toxicity  
aquatic invertebrates 4313  
insect pests 455, 4266, 7536-7537  
*Podisus* 9651  
*Spodoptera littoralis* 8512  
*Stethorus punctum* 10581  
**Tebufenpyrad**  
control, arthropod pests, *Citrus* 11900  
effects, *Cyprinus carpio* 5308  
mode of action 3313  
toxicity  
Tetranychidae 9563  
*Tetranychus urticae* 6342  
usage 1314  
**Tebupirimfos**  
nontarget effects, soil 10647  
with cyfluthrin, effects, soil 10647  
**Techniques**  
algorithms, Formicidae, behaviour 3179  
analysis  
aniline, toxicity 2305  
antifeedants 10339  
Aphididae, population dynamics 4592  
arthropod communities 2022  
*Bombyx mori*, chromosomes 7135  
chlordanes, residues 3141  
Coleoptera, predation 9383  
*Encarsia berleseii*, chromosomes 6118  
fumigants 1173  
growth regulators, fruit vegetables, commodities 4068  
Hymenoptera, genetics, DNA 9381  
insecticide resistance, *Drosophila* 1920  
insecticides 2293-2294, 2348, 3328, 7321  
residues 471, 3337, 3343, 4796, 5341, 6117  
atmosphere 8584  
cereals 11712
- Techniques** *cont.*  
analysis *cont.*  
insecticides *cont.*  
residues *cont.*  
crops 5503  
eggs 10567  
environment 3396, 11672  
honey 10634  
seafoods 10330  
wheat, commodities 5750  
toxicity 9403  
insects  
flight 10349  
hormones, reviews 3153  
*Nezara viridula*, secretions 11766  
organochlorine compounds 1383  
residues 1184  
pesticides 2046, 5112, 10521, 11630  
additives 10505  
chemical composition 2254  
effects 3371  
malathion, protective clothing 3139  
residues 2292, 3315, 9394, 12096-12097  
agricultural products 4807  
honey 11662  
water 3154, 4234, 10644  
reviews 2352  
pheromones 9658  
polychlorinated biphenyls 2263  
proteins 2170  
species diversity 3094  
*Trichogramma*, behaviour 7184  
analytical methods  
insecticides 2060  
formulations 10333  
residues 8345  
foods 10331  
man 2318  
water 10332  
pesticides, residues 1171, 7573  
application  
acaricides 3132  
*Beauveria bassiana*, *Melanoplus sanguinipes* 10431  
insecticides 421, 1491, 3561, 4272, 4547, 5436, 5485, 5514, 6130, 6278, 9389  
netting 10835  
sprays 6133  
trees 10865  
*Metarhizium flavoviride* 7466  
microbial pesticides 7484  
pesticides 2070, 3161, 3172, 3572, 5119, 7494, 9408  
aerial application 9409  
fogging 11874  
mixtures 8348  
sprays 3156, 3560  
sprays 5615  
assays  
*Bacillus thuringiensis*, toxicity 2213  
detection, nuclear polyhedrosis viruses 9489  
insecticides, effects, *Bemisia argentifolii* 11655  
juvenile hormone II 11213  
predators, prey 256  
assessment  
*Acrocercops syngamma*, damage, cashews 6704  
*Anthonomus grandis*  
flight 5617  
mortality 2639  
*Ceratitidis capitata*, genetic polymorphism 6010  
insecticides  
effects, birds 11613  
nontarget effects, aquatic environment 10650  
residues 475  
toxicity, aquatic organisms 10624  
pesticides  
effects 1358-1359  
*Encarsia formosa* 4093  
exposure 5106, 9385  
losses, soil 10664  
mixtures 5120  
nontarget effects  
beneficial arthropods 4282



**Techniques cont.**

assessment cont.

pesticides cont.

nontarget effects cont.

plants 5101

*Porcellionides pruinosus*

11605

vertebrates 4283

sprays 7298-7299

toxicity 10611, 11656

*Podisma pedestris*, dispersal 8267

pollutants, effects 1387

species diversity 11403

sprayers 7300

ultraviolet radiation, effects, pathogens 9479

*Varroa jacobsoni*, damage 11437

bioassays

*Bacillus thuringiensis*, formulations 10351*Beauveria bassiana* 7391

entomogenous fungi 7423

pathogenicity 8443

entomophilic nematodes 7414

*Heterotermes indicola* 849

insecticides 2297, 10019

effects 3131

Homoptera 10352

nontarget effects 6372

resistance 2401, 3140, 5110-5111

*Lymantria dispar*, pheromones 3830

nuclear polyhedrosis viruses 1248

peptides, effects, *Locusta migratoria* 6142

pheromones 7310

reviews 5121

soil arthropods 5118

*Tribolium castaneum*, plant extracts, effects 410cell culture, *Spodoptera frugiperda* 4071

certification

*Ribes* 10862*Rubus* 10860

strawberries 10864

characterization

*Bacillus thuringiensis* 10407*Bombyx mori*, proteins 10197*Hyphantria cunea*, lipophorins 10176

insect viruses 10444

juvenile hormones 8346

*Melanoplus sanguinipes*, proteins 11227*Metarhizium anisopliae* 4065

chromatography, insecticides, purity 272

collection

*Anticarsia gemmatilis*, pupae 6125*Aphis spiraeola*, eggs 7313*Bemisia tabaci*, parasitoids 11449

Carabidae 5102

insects, sap 7780

computer aided identification, biodiversity 7295

computer software 8467

computer techniques, insecticides, structure activity relationships 10342

controlled release, insecticides 1316

cryopreservation

*Drosophila melanogaster* 8328*Erynia radicans* 11505

culture (see Culture techniques)

decontamination

biological control agents, pressure treatment 10358

sediment, insecticides, residues 488

water, insecticides, residues 488

detection

*Bacillus thuringiensis*, toxins 6124*Bombyx mori*, nuclear polyhedrosis viruses 2174

cherries, insect pests, damage 6658

ELISA, pesticides 263

entomogenous fungi 6261

Hemiptera, enzymes 5104

insect viruses 2176

insecticides 2062, 2271, 3150, 3327, 11398

environment 11678

residues 2061

drinking water 2375

vegetables 9395

resistance 258, 9399

**Techniques cont.**

detection cont.

insects, pathogens 3283

irradiation, *Bactrocera tryoni* 6106*Oeonia hirta* 6109

pesticides 10597

crops 9393

faba beans 9396

residues 3138

water 10663

plant viruses 6603

*Myzus persicae* 9847

pollutants, soil 2057

prey 6127

*Sitophilus*, maize, commodities, damage 5749*Sternonchelus mangiferae*, mangoes, commodities 6891

determination

*Abax parallelepipedus*, diets 10375

acaricides, residues 2358, 5286, 10605

Aphididae, feeding 143

arthropods, lipids 141

carbaryl 1312

*Dendroctonus frontalis*, lipids 3863

foods, insecticides, residues 3148

fumigants 1182

residues

blood 9398

commodities 9398

*Goniozus nephantidis*, developmental stages 9384

insecticides 411, 1313, 2299, 2334, 6304, 7322, 10329, 10507, 11397

degradation 6110

phytotoxicity 7312

residues 462-463, 468, 490, 494, 845, 2047, 3397, 3682, 4805-4806, 5346, 5734, 6498, 10604, 11396, 11402, 12038

air 8578

apples 8575, 10588

fishes 4072

horticultural crops, commodities 5740

meat 1763

milk 442

soil 2058, 6204

tea 6886

water 2374, 10633

toxicity, Lepidoptera 7545

water 5292

lethal dose 4053

*Nilaparvata lugens*, biotypes 9729

organochlorine compounds 2383, 10643

organochlorine pesticides

medicinal plants, residues 7983

residues, water 7611

*Panonychus citri*, population density 8785

pest resistance 6445

maize 8652

pesticides 1388, 7572, 8565, 10356, 10641

air 8592

residues 487, 499, 5735-5736, 9636

air 8582

environment 2073

fishes 10568

foliage 3146

foods 9604

horticultural crops 12067

meat 4793

soil 511, 10658, 10666

water 4335

wine 12073

water 4067, 4069, 7599

proteins, toxicity, *Acyrtosiphon pisum* 11566

sediment, insecticide residues 484

differentiation

Aphididae, clones 3134

*Bacillus thuringiensis*, strains 3149*Lymantria dispar*, populations 1177discriminant analysis, *Sitobion avenae* 7654**Techniques cont.**discrimination, *Photographus luminescens* 7417

DNA fingerprinting

Aphididae 7297

*Bombyx mori* 147

DNA probes, insects 8330

electroantennograms

*Acyrtosiphon pisum* 4052

Noctuidae, pheromones 5891

electron microscopy, Entomopoxvirinae 9499

electrophoresis, insects 7302

ELISA, insecticides 4238

encapsulation, entomophilic nematodes 11389

estimation

*Aphis gossypii*, population density 6556, 7748

cassava, insect pests, damage 2509

*Euscepes postfasciatus*, population density 10792

functional responses 4103

heat sums 4061

*Heteropsylla cubana*, population density 10951

insecticides, resistance 6111

insects, mortality 1176

man, pesticides, effects 10627

pesticides, effects 7593

*Quadracalcarifera punctatella*, population density 5647

Scarabaeoidea, biomass 6023

evaluation

insecticides

effects, aquatic organisms 4328

exposure, nontarget organisms 11622

pest control 11394

pest resistance 709

pesticides

residues, environment 510

toxicity 4235

*Sesamia nonagrioides*, chemical control 9700

traps, insect pests 259

examination, insects 8334

expert systems

*Aphis fabae*, faba beans, forecasting 4474

cotton, pest control 3616

pest control 8447

potatoes, integrated pest management 7756

extraction

cereals, commodities, pesticides, residues 8577

*Entomophaga maimaiga* 4698

insecticides 2066

residues 4336, 11395

soil 9646

vegetables 3513

water 10649

soil 7308

insects

genetics, DNA 11235

leaves 8335

Lepidoptera, DNA 3135

pesticides 2055, 10357

residues

foods 12085

soil 12085

water 7609, 10644

soil 9410

water 502

pirimicarb, residues, soil 10514

*Plutella xylostella*, vesicles 4058

polychlorinated biphenyls 5317

forecasting (see Forecasting)

formulation, pesticides 426

formulations, insecticides 2261

freeze drying, Aphidoidea 10334

genetic engineering, microbial pesticides 2211

identification

Aphididae 2071

arthropods, paternity 4993

*Bactrocera* 8341

Bruchidae 10341

*Callosobruchus chinensis*, developmental stages 8343



**Techniques cont.**

- identification cont.
  - Callosobruchus maculatus* 6895
  - Coccinellidae, genetic markers 3152
  - entomogenous fungi 6261
  - insects 7318
  - Lymantria* 8236
  - Melanoplus sanguinipes*, proteins 11227
  - microbial pesticides, strains 11474
  - Myzus persicae*, morphs 7311
  - Nosema furnacalis*, spores 9493
  - nuclear polyhedrosis viruses 11523
  - pheromones 520
  - Rhopalosiphum padi*, morphs 5829
  - Sitobion avenae* 5105
  - Solenopsis*, genetic markers 8340
  - Tephritidae 2053
  - Trichogramma* 11244
- immobilization, Formicidae 1168
- immunoassay
  - Dysdercus fasciatus*, moulting hormones 6120
  - insecticides 4284
  - residues, foods 9618
  - plant viruses, Aphididae 8342
- immunofluorescence, insects, chromosomes 5117
- infection
  - nuclear polyhedrosis viruses, cell lines 5220
  - Tribolium confusum*, *Wolbachia pipiens* 7461
- isolation
  - Galleria mellonella*, genes 2982
  - Nosema furnacalis*, spores 9493
- lysometry, insecticides, residues, environment 2371
- mark release recapture, *Epilachna niponica* 2017
- marking, *Lymantria dispar*, predators 9392
- measurement
  - agricultural chemicals, evaporation 7519
  - Coleoptera, movement 7307
  - Cylas formicarius*, flight 7213
  - damage, plants 2429
  - Tortricidae, activity 3987
- microscopy
  - Encarsia perniciosi*, development 2115
  - Lepidoptera, genitalia 7305
  - Liposcelis* 10028
  - Microlepidoptera 7303
  - Phasmida, embryology 2049
- molecular genetics
  - arthropods 5987
  - insects 5976
- monitoring
  - Cacopsylla pyri* 6653
  - Helicoverpa armigera*, insecticides, resistance 6317
  - insecticides
    - effects, birds 10583
    - residues, water 5361, 11665
    - resistance 9404, 10555
  - insects, flight 4074
  - pesticide residues 8587
  - mammals 459
  - pesticides
    - effects 1360
    - residues, environment 255
  - pollution 9277
  - Pterostichus melanarius*, prey 9390
  - Spodoptera litura*, damage 10761
- PAGE, *Bacillus thuringiensis*, proteins 2074
- plant breeding, potatoes, pest resistance 10785
- preparation, *Paecilomyces farinosus* 9492
- preservation
  - Athalia rosae*, spermatozoa 3803
  - Coleoptera 257
- production
  - Metarhizium anisopliae* 7469
  - proteins 11534
- purification
  - Bombyx mori*, enzymes 7042
  - Drosophila melanogaster*, proteins 5100

**Techniques cont.**

- purification cont.
  - Hyphantria cunea*, lipophorins 10176
- radio, detection, insects 3982
- rearing (see Rearing techniques)
- recording
  - Drosophila mettleri*, songs 9386
  - insects, flight 10347
  - Manduca sexta*, sense organs 4073
- release, pheromones 11554
- remote sensing
  - forest pests 6781
  - insects 2065
- Leptinotarsa decemlineata* 6551
- removal
  - insecticides
    - drinking water 2378
    - residues
      - crops 2323
      - man 10623
      - water 2805, 3150
  - pesticides
    - residues, water 5107
    - water 6134
- sampling (see Sampling)
- screening
  - Bombyx mori*, pathogens 10390
  - man, pesticides, poisoning 8532
  - pest resistance 4422, 6449
  - pesticides 10600
  - residues, groundwater 9638
- separation
  - Bacillus thuringiensis* subsp. *yunnanensis*, crystal proteins 8326
  - Chrysodeixis includens*, haemocytes 104
  - Lepidoptera, haemocytes 10198
  - marine environment, pollutants 2351
- spraying, hops 3147
- staining
  - Acarapis woodi* 9379
  - Aphididae, mouthparts 788
  - Liriomyza trifolii* 11392
  - proteins 9188
- statistical analysis
  - Carabidae, ecology 5453
  - insecticides, application 6129
  - Opisina arenosella*, population density 9917
  - pesticides, toxicity 264
  - predator prey relationships 2106
- statistical techniques, Drosophilidae 1077
- storage
  - Bombyx mori* 2146
  - Metarhizium flavoviride* 10446
- surveys
  - biodiversity 3024
  - granulosis viruses 7441
- synthesis
  - acaricides 4258
  - dithianes 10343
  - insecticides 3679, 11569
  - metabolites 6303
  - juvenile hormones 10668
  - Lepidoptera, attractants 9966
  - moulting hormones 11218
  - pesticides 4237
  - residues 4236
  - pheromones 266, 270, 518-519, 521, 523, 1400, 2565, 3144, 3304, 4357, 8602, 10167, 10344, 10674, 11687, 11690
  - plant extracts 11001
  - analogues 10345
  - pyrethroid acids 260
  - pyrethroids 5289
  - trioxabicyclooctanes 10343
- testing
  - entomogenous fungi, viability 10447
  - insecticide resistance 6322
  - Oulema oryzae*, insecticide resistance 9387
  - pest resistance 2399
  - pesticides
    - application 3162
    - mixtures, toxicity 8568
    - protective clothing 3159
- trapping, Lepidoptera 5678
- waste disposal, insecticides, residues 11667

**Technomyrmex alipes**

- Alpinia purpurata* 10996
- control 10996
- ecology, reproduction 11164
- Tecia solanivora**
  - potatoes
    - Costa Rica 9777
    - damage 9777
- Tecomella undulata**, *Patialis tecomella*, Indian Punjab 3668
- Tectona**
  - Cossus cadambae*, Kerala 2672
  - Eutectona machaeralis*, Uttar Pradesh 3625
- Tectona grandis**
  - Cossus cadambae*, Karnataka 2678
  - Eutectona machaeralis* 8894
  - Holotrichia serrata*, Sri Lanka 8891
  - insect pests
    - damage 8889
    - Thailand 8889
  - Lepidoptera 3630
- Teflubenzuron**
  - control
    - Cydia molesta*, pome fruits 7809
    - insect pests, cowpeas 9771
    - Plutella xylostella*, cabbages, models 9802
    - Scrobipalpula absoluta*, tomatoes 2535
  - effects
    - Acrididae 3422
    - Coccinellidae 444
    - predatory insects 9771
    - Trichogramma pretiosum* 7570
  - mixtures, control, insect pests, cowpeas 9771
  - nontarget effects, Hymenoptera 4104
  - resistance, *Plutella xylostella* 6336, 8504, 9650
  - toxicity
    - Ceraeochrysa cubana* 4324
    - Coleoptera 1332
    - Diadegma semiclausum*, models 9802
    - Eulophus pennicornis* 9614
    - Plutella xylostella* 10669
    - Stethorus punctum* 10581
- Tefluthrin**
  - control
    - arthropod pests, sugarbeet 11954
    - insect pests, sugarbeet 2611, 11953
    - Ophiomyia phaseoli*, *Phaseolus* 10770
  - effects, herbicide resistance 9714
  - formulations 11572
  - interactions, herbicides 2316
  - phytotoxicity, ornamental plants 4277
- Tefubenzozide**, effects, Lepidoptera 8510
- Tegeticula yuccasella**
  - biology, behaviour 8000
  - Yucca*, pollination 2721
  - Yucca filamentosa*, pollination 2722
  - Yucca glauca*
    - Colorado 4749
    - pollination 4749
  - Yucca kanabensis*
    - pollination 1741, 8000
    - Utah 1741, 8000
- Tegolophus myersi**
  - avocados, Chile 9358
  - distribution, Chile 9358
- Tegolophus zizyphagus**
  - control 8793
  - Zizyphus sativa*, China 8793
- Telamonia bifurcilinea** (see *Phintella bifurcilinea*)
- Teleiodes decorella**, pistachios, Greece 8800
- Telenomus**
  - attractants 7502
  - fields, habitats, Quebec 4110
  - hops, habitats, Honshu 10380
  - hosts
    - Coniesta ignefusalis* 2442
    - Inachis io* 10380
    - Lygus lineolaris* 4110
    - Nisaga simplex* 11745
    - Tibraca limbativentris* 9725
  - millets, fields, Niger 2442
  - rice, habitats, Orissa 11745
- Telenomus ampullaceus**
  - fields, habitats, Maharashtra 5153
  - hosts, *Chrysoperla carnea* 5153



- Telenomus busseolae**  
biology 6173  
control, *Sesamia nonagrioides* 6173  
hosts, *Sesamia calamistis* 10714  
maize, fields, Benin 10714
- Telenomus dendrolimi**  
biology, behaviour 10372  
hosts, Lasiocampidae 10372
- Telenomus gynaephora**, hosts, *Gynaephora* 10379
- Telenomus kolbei**, hosts, *Andraca bipunctata* 11457
- Telenomus laelia**  
control, *Laelia coenosa* 11455  
Jiangsu 11455
- Telenomus remus**  
control, *Spodoptera litura*, potatoes 1493  
hosts, *Agrotis biconica* 4635  
potatoes, fields, Karnataka 1493
- Telenomus rowani**  
hosts, *Scirpophaga incertulas* 5441  
rice, fields, Indonesia 5441
- Teleogryllus commodus**  
biochemistry, enzymes 279  
morphology, reproductive organs 1858  
physiology, nervous system 8151  
plant extracts, effects 4259
- Teleogryllus emma**  
biology, environmental factors 10274  
Shandong 10274
- Teleogryllus infernalis**  
biology, environmental factors 10274  
Shandong 10274
- Teleogryllus oceanicus**  
physiology  
nervous system 981  
sense organs 1899
- Teleonemia scrupulosa**  
control, *Lantana camara* 11446  
*Lantana camara* 8979  
predators 11446
- Teleopteris**, taxonomy 4830
- Telsimia nigra**, distribution, Korea Republic 11099
- Temeleucha sinuata**, hosts, *Zophodia prodenialis* 1758
- Temephos**  
control, Chironomidae, rice 9734  
toxicity, *Steinernema carpocapsae* 7583
- Temik** (see Aldicarb)
- Temnaspidiotus destructor** (see *Aspidiotus destructor*)
- Temnorhynchus**  
distribution, Africa 1601  
taxonomy 1601, 5816
- Temnorhynchus coronatus**, coconuts 1601
- Temnoscheila chlorodia**, prey, Scolytidae 11976
- Temnothorax recedens**, genetics, genes 5143
- Temperate fruits**  
*Apodiphus*, Pakistan 2546  
pest control  
models 639  
Netherlands, reports 853  
Tortricidae, Hungary 2235
- Temperature**  
effects  
*Bacillus thuringiensis*, pathogenicity 9854  
nuclear polyhedrosis viruses 6238  
*Steinernema kushidai* 7480
- Tenebrio molitor**  
biochemistry  
cuticle 5945  
immune response 11490  
metabolism 96  
neuropeptides 7021  
proteins 8173, 9210  
biology  
development 5856  
environmental factors 6079  
life history 7373  
chromosomes, immunofluorescence 5117  
control, chemical control 6881  
flour mills, Italy 6878  
genetics  
chromosomes 5117  
DNA 2956  
genes, proteins 11271  
growth regulators, toxicity 2281  
Guangdong 7373
- Tenebrio molitor** cont.  
insecticides  
effects 8601  
toxicity 4319, 11595  
insects as food 7373  
morphology, nervous system 4887  
pathogens 1247, 4136, 7396, 10455  
physiology 8601  
endocrine system 11271  
enzymes 9163  
metamorphosis 2902  
sense organs 10186  
plant extracts  
antifeedants 2391, 6400, 6404, 10679  
effects 9163  
predators 1103, 1347, 3991, 5166, 6158, 7373, 9418, 10205, 10383, 11561  
rearing techniques 7373
- Tenebrio obscurus**, prey, *Acanthognathus rudis* 6055
- Tenebrionidae**  
Asia 8074  
asparagus, South Africa 5502  
control, chemical control 6714  
deserts, Namibia 11305  
*Eucalyptus*, Espirito Santo 3637  
groundnuts  
Africa 6713  
damage 4632, 6713  
South Africa 4632, 6714  
monitoring, traps 3637  
morphology 57, 8074  
physiology, senses 11305  
taxonomy 4821, 7318, 8074
- Tenebroides mauritanicus**  
cereal grains, South Carolina 4809  
flour mills, Italy 6878
- Tennulosa ilisha**, insecticides, residues 11647
- Tenodera angustipennis**  
Delaware 226  
ecology, environmental factors 226  
*Thaumaglossa rufocapillata*, interactions 4119
- Tenodera aridifolia**, *Thaumaglossa rufocapillata*, interactions 4119
- Tenodera sinensis**  
biology  
behaviour 210, 3049  
environmental factors 10382  
Delaware 226  
ecology  
environmental factors 226  
population dynamics 3049  
fields, habitats, Delaware 3049  
Maryland 10382  
predatory arthropods, interactions 3049
- Tenthredinidae**  
*Betula*, Finland 6750  
China 8078  
ecology  
habitats 6750  
population dynamics 10695  
fertilizers, effects 10695  
field crops, Estonia 10695  
parasitoids 11106  
pathogens 7434, 7956  
taxonomy 8078  
wheat, UK 4409
- Tenthredo maxima**  
morphology 4823  
taxonomy 4823
- Tenuipalpus**, taxonomy 3746
- Tenuipalpus citri**, taxonomy, synonyms, of *T. emeticae* 3746
- Tenuipalpus danxianensis**  
sapodillas, Hainan 11132  
taxonomy, new species 11132
- Tenuipalpus sanyaensis**  
*Lannea coromandelica*, Hainan 11132  
taxonomy, new species 11132
- Tenuipalpus emeticae**, taxonomy, synonyms, *T. citri* 3746
- Tephрина arenacearia**  
Hungary 4360  
pheromones 4360
- Tephritidae**  
biochemistry, enzymes 2912  
biology 861, 3730  
*Centaurea*, Europe 1225  
control 861, 2210, 3533, 5766
- Tephritidae** cont.  
control cont.  
heat treatment 1774  
reviews 10460  
distribution  
Australia 8315  
Switzerland 3730  
ecology 3730  
fruits  
China 2210  
South Africa 3533  
genetics  
conferences 5766  
nucleotide sequences 5986  
Japan 10460  
monitoring 3533  
Pacific Islands 11011  
parasitoids 3226  
Switzerland, books 3730  
taxonomy 2861, 3730, 7318
- Tephritis apicata**, taxonomy, synonyms, of *Euaresta reticulata* 9
- Tephritis arizonensis**  
*Baccharis sarothroides*, California 829  
biology, life cycle 829  
parasitoids 829
- Tephrosia candida**, extracts, control, *Cosmopolites sordidus* 661
- Tephrosia purpurea**, *Orthacris maindroni* 582
- Tephrosia vogelii**, extracts, control, *Cosmopolites sordidus* 661
- Terbufos**  
control  
Collembola, *Brassica* 6578  
*Heteronychus arator*, sugarcane 8816  
insect pests, maize 6470  
*Otiorynchus sulcatus*, ornamental woody plants 6812  
Tenebrionidae, field crops 5396  
effects  
herbicide resistance 9714  
*Lumbricus terrestris* 7598  
*Peromyscus maniculatus* 8553  
extraction 2066  
herbicides  
interactions 6470  
assessment 5120  
interactions, herbicides 2316, 10632, 10722  
nontarget effects, maize 10632, 10722  
residues, environment 2066  
toxicity  
aquatic organisms 1343-1344  
*Maladera matrida* 8511
- Terellia ruficauda**  
biology, reproduction 5728  
*Cirsium arvense*, North America 5728
- Terellia uncinata**  
*Centaurea solstitialis*  
Italy 5729  
resistance 5729
- Terellia vectensis**  
*Serratura tinctoria*  
galls 8985  
UK 8985
- Teratophylidae opaca**  
biology 1141  
distribution, Brazil 1141  
morphology 1141  
taxonomy 1141
- Teratophyllini**  
Australia 11105  
taxonomy 11105
- Termes**, morphology, digestive tract 3787
- Termes lacteus**, taxonomy 3756
- Termes lactis**, taxonomy 3756
- Termes nigrus**, morphology, digestive tract 3787
- Termes saltans**, morphology, digestive tract 3787
- Terminalia**, *Aleuroclava terminaliae*, Maharashtra 21
- Terminalia arjuna**  
*Antheraea mylitta* 6211  
*Apoderus tranquebaricus*  
Bihar 725  
damage 725
- Terminalia ferdinandiana**  
insect pests  
damage 5637



- Terminalia ferdinandiana* cont.**  
insect pests cont.  
Northern Territory 5637
- Terminalia manii*, *Bactrocera dorsalis*.**  
Andaman and Nicobar Islands 11887
- Terminalia procera*, *Bactrocera dorsalis*.**  
Andaman and Nicobar Islands 11887
- Termitacarus ishiharai***  
hosts, *Reticulitermes speratus* kyushuensis 11116  
Japan 11116  
taxonomy, new species 11116
- Termitidae**  
biochemistry, digestive tract 5900  
biology, environmental factors 11937  
Congo 3237  
forests, Uttar Pradesh 726  
groundnuts, Delhi 11937  
insecticides, toxicity 3679  
physiology, digestive system 3236  
plant extracts, toxicity 3679
- Termitomyces***  
*Macrotermes*, symbionts 5187  
*Macrotermes muelleri*, symbiosis 91
- Termitoxeninae**, taxonomy 9090
- Ternstroemia gymuanthera*, *Trioxa ternstroemiae***, Japan 9061
- Terpenes**, mixtures, effects, *Choristoneura occidentalis* 4746
- Terpenoids**  
attractants, predatory arthropods, reviews 4370  
effects  
Phytoseiidae 4354  
Scolytidae 2709  
toxicity, stored products pests 8479
- Tersilochus***  
*Cynoglossum officinale*, habitats, Netherlands 2748  
hosts, *Ceutorhynchus crucifer* 2748
- Tersilochus heteroceris***  
hosts  
*Ceutorhynchus pallidactylus* 2130  
*Meligethes* 8801  
rape, fields, Sweden 8801  
wheat, fields, Germany 2130
- Tersilochus microgaster***  
hosts  
*Ceutorhynchus pallidactylus* 2130  
*Psyllioides chrysocephala* 2130  
wheat, fields, Germany 2130
- Tersilochus obscurator***  
hosts, *Ceutorhynchus pallidactylus* 2130  
wheat, fields, Germany 2130
- Tessaratomia papillosa***  
control, biological control 11905  
parasitoids 11905  
subtropical tree fruits, Guangxi 11905
- Tessaratomidae**  
morphology, mouthparts 1862  
Nicaragua 10316  
taxonomy, bibliographies 46
- Tetracampidae**, taxonomy 6960
- Tetrachlorvinphos**, control, *Cadra*, dates 3540
- Tetracnemoidea brevicornis***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetracnemoidea peregrina***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetracnemoidea sydneyensis***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetradacus citri* (see *Bactrocera minax*)**  
(9Z,11E)-9,11-Tetradecadienoic acid, pheromones, *Spodoptera littoralis* 3833  
(9Z,11E)-9,11-Tetradecadien-1-ol acetate pheromones  
*Spodoptera eridania* 2428  
*Spodoptera littoralis* 3831  
(9Z,12E)-9,12-Tetradecadien-1-ol acetate pheromones  
*Plodia interpunctella* 11693  
*Spodoptera* 2428, 9068  
(9Z,12E)-9,12-Tetradecadien-1-ol, attractants, *Spodoptera exigua* 4373  
(9Z,12E)-9,12-Tetradecadien-1-ol, pheromones, *Plodia interpunctella* 11693  
(3E,5Z)-3,5-Tetradecadienyl acetate, attractants, *Recurvaria leucatella* 1530  
(9E,11E)-9,11-Tetradecadienyl acetate, pheromones, *Epiphyas postvittana* 5377, 7820  
(9Z,11E)-9,11-Tetradecadienyl acetate pheromones  
*Spodoptera littoralis* 10169  
*Spodoptera litura* 6406  
(9Z,12E)-9,12-Tetradecadienyl acetate attractants, *Ephesia kuehniella* 11046  
pheromones  
*Ephesia kuehniella* 6878  
*Spodoptera littoralis* 10169  
*Spodoptera litura* 6406  
with cypermethrin, control, *Ephesia kuehniella*, flours 11046  
Tetradecan-1-ol, pheromones, *Acrobasis vaccinii* 7061  
(Z)-11-Tetradecanol, pheromones, *Merophyas leucaniana* 675  
(Z)-9-Tetradecan-1-ol, pheromones, *Spodoptera* 2428  
(Z)-9-Tetradecen-1-acetate, pheromones, Noctuidae 5272  
Tetradecenal, pheromones, *Graphania* 402  
(E)-11-Tetradecenal, pheromones, *Choristoneura fumiferana* 9656  
(Z)-11-Tetradecenal, pheromones, *Choristoneura fumiferana* 9656  
9-Tetradecenal, control, Lepidoptera, cotton 4655  
(Z)-9-Tetradecenal, pheromones, Lepidoptera 1630  
(E)-11-Tetradecenoic acid, pheromones, *Spodoptera littoralis* 3833  
Tetradecenol, pheromones, *Graphania* 402  
(Z)-9-Tetradecen-1-ol acetate, pheromones, *Spodoptera* 9068  
(E)-11-Tetradecen-1-ol, control, *Platynota idaeusalis*, apples 6640  
(Z)-9-Tetradecenol, pheromones, *Spodoptera littoralis* 10169  
(E)-7-Tetradecen-2-one mixtures  
attractants, *Exomala orientalis* 1892  
pheromones, *Blitopertha orientalis* 6815  
pheromones  
*Blitopertha orientalis* 5376, 7629  
*Exomala orientalis* 1892  
(Z)-7-Tetradecen-2-one mixtures  
attractants, *Exomala orientalis* 1892  
pheromones, *Blitopertha orientalis* 6815  
pheromones  
*Blitopertha orientalis* 5376, 6815, 7629  
*Exomala orientalis* 1892  
Tetradecenyl acetate, pheromones, *Graphania* 402  
11-Tetradecenyl acetate, pheromones, *Ostrinia nubilalis* 4375  
(E)-11-Tetradecenyl acetate control, *Platynota idaeusalis*, apples 6640  
pheromones  
*Argyrotaenia ljungiana* 11853  
*Epiphyas postvittana* 5377, 7820  
*Merophyas leucaniana* 675  
*Ostrinia nubilalis* 517  
Tortricidae 4552  
(Z)-11-Tetradecenyl acetate effects, *Aethmia ambusta* 11850  
pheromones  
*Argyrotaenia ljungiana* 11853  
*Cnephasia jactatana* 675  
inhibitors, *Epiphyas postvittana* 7820  
*Merophyas leucaniana* 675  
*Ostrinia nubilalis* 517  
Tortricidae 4552  
(Z)-5-Tetradecenyl acetate, effects, *Aethmia ambusta* 11850  
(Z)-7-Tetradecenyl acetate, effects, *Aethmia ambusta* 11850  
(9Z,12E)-9,12-Tetradecenyl acetate, pheromones, *Spodoptera exigua* 6407  
(Z)-9-Tetradecenyl acetate attractants, *Spodoptera exigua* 4373  
mixtures, control, *Agrotis segetum* 9537  
pheromones  
*Agrotis ipsilon* 5070  
*Agrotis segetum* 9657  
(Z)-9-Tetradecenyl acetate cont., pheromones cont.  
*Spodoptera* 10678  
*Trichoplusia ni* 3824  
(E)-Tetradecenyl acetate, mixtures, attractants, insect pests 5419  
(Z)-Tetradecenyl acetate, mixtures, attractants, insect pests 5419  
(Z)-9-Tetradecenyl nitrate, pheromones, *Bucculatrix thurberiella* 4663  
(E)-5-Tetradecen-1-yl, pheromones, *Athrips* 270  
(3E)-3-Tetradecenyl acetate, attractants, *Recurvaria nanella* 1530  
Tetradecyl acetate pheromones  
*Acrobasis vaccinii* 7061  
*Merophyas leucaniana* 675  
*Tetradenia riparia*, extracts, toxicity, *Zabrotes subfasciatus* 4479  
Tetradifon control, *Tetranychus luedeni*, okras 5513  
formulations 6294  
water hardness, effects 3324  
residues  
apricots 11862  
leafy vegetables 3513  
*Tetradium daniellii*, extracts, insecticidal properties 1720  
Tetragnatha control, *Tagosodes orizicolus*, rice 11742  
rice, fields, Colombia 11742  
Tetragnatha elongata biology, behaviour 5178  
North Carolina 5178  
Tetragnatha japonica prey, *Sogatella furcifera* 8664  
rice, fields, Philippines 8664  
Tetragnatha maxillosa ecology, population dynamics 11750  
prey, insects 11750  
rice, fields, China 11750  
Tetragnatha straminea, rice, fields, Colombia 11742  
Tetragnathidae biology, behaviour 2579  
*Citrus*, orchards, South Africa 2579  
prey, *Trioxa erytreae* 2579  
Tetrahymena, pesticides, metabolism 5330  
Tetrahymena thermophila, insecticides, effects 6367  
Tetralobus cavifrons, Acacia, Sudan 6776  
Tetramesa biology 3743  
grasses, UK 3743  
morphology 3743  
taxonomy 3743  
(1R,3R,5R,7R)-1,3,5,7-Tetramethyldecyl formate, effects, Acari 98  
1R,3R,5R,7R-1,3,5,7-Tetramethyldecyl formate, pheromones, Acari 98  
(2E,4E,6R,10R)-4,6,10,12-Tetramethyl-2,4-tridecadien-7-one pheromones  
*Matsucoccus* 7630  
*Matsucoccus thunbergianae* 5672, 12014  
Tetramorium, genetics 3880  
Tetramorium aculeatum biology, behaviour 287  
cocoa, plantations, Ghana 4645  
interactions, Hemiptera 4645  
pheromones 287  
Tetramorium bicarinatum, biology, behaviour 3188  
Tetramorium caespitum distribution, Idaho 2045  
genetics 3880  
Honshu 5790  
*Lasius neoniger*, competition 2045  
*Nipponatelurina kurosai*, interactions 5790  
prey, *Diuraphis noxia* 2045  
Tetramorium impurum, genetics 3880  
Tetramorium simillimum, *Coptotermes formosanus*, interactions 6205  
Tetrameura fusiformis (see *Byrsocrypta fusiformis*)  
Tetrameura radicola ecology, population dynamics 4712



***Tetraneura radicola* cont.**

- Ulmus davidiana*
- galls 4712
- Hokkaido 4712

***Tetraneura sorini***

- ecology, population dynamics 4712
- Ulmus davidiana*
- galls 4712
- Hokkaido 4712

**13,14,15,16-Tetranor-neo-clerodanes,**  
antifeedants, *Spodoptera littoralis* 2735**Tetranychidae**

- control, biological control 10863, 10990
- cotton
- China 9949
- resistance 9949
- ecology, environmental factors 2512
- insecticides, toxicity 11570
- ornamental plants, Germany 10990
- predators 2512
- strawberries, Germany 10863
- taxonomy 3737

***Tetranychus***

- acaricides, effects 6333
- control, chemical control 4653, 6655
- cotton, Ceara 4653
- fruits, South Africa 11841
- predators 613
- Prunus salicina*, California 6655

***Tetranychus cinnabarinus***

- acaricides, effects 11599
- aubergines 2536
- biology 7933
- development 10244
- diapause 3022
- cassava 4483
- control 7933
- chemical control 10816
- cotton
- Henan 10918
- outbreaks 10918
- crops 11830
- ecology
- arthropod communities 9349
- spatial distribution 2536
- greenhouse crops, Poland 10816
- melons
- Israel 5562
- resistance 5562
- Phaseolus*, Portugal 6542
- plant extracts
- effects 11830
- toxicity 6305, 11583
- predators 10371
- prey, *Tetranychus* 10244
- sampling 2536
- vegetables, Sichuan 9349
- watermelons, varietal susceptibility 1526
- Ziziphus sativa* 7933

***Tetranychus hypogaea*, predators 10244*****Tetranychus kanzawai***

- acaricides, effects 4276
- agricultural chemicals, toxicity 2392
- aubergines, Honshu 9814
- biology, environmental factors 6076
- cassava, Congo 6565
- control
- biological control 5541
- chemical control 5541, 9814
- ecology, population dynamics 2576
- grapes 5541
- predators 2576, 5541, 6565
- watermelons, Honshu 2576

***Tetranychus linearius***

- biology, development, models 6847
- prey, *Stethorus bifidus* 6020
- Ulex europaeus* 6847

***Tetranychus ludeni***

- control, chemical control 5513
- ecology, population dynamics 5513
- okras, Bihar 5513
- Phaseolus*, Portugal 6542
- predators 5513

***Tetranychus macfarlanei***

- biology, life cycle 11838
- crops 11830
- okras 11838
- plant extracts, effects 11830

***Tetranychus mcDanieli***

- control, biological control 1558
- grapes, France 1558

***Tetranychus merganser***

- distribution, China 1830
- Thalictrum*, Shanghai 1830

***Tetranychus neocaledonicus***

- cassava 4483
- Congo 6565
- predators 6565

***Tetranychus okinawanus***

- food plants, Ryukyu Archipelago 10107
- taxonomy, new species 10107

***Tetranychus pacificus***

- biology, life tables 711
- control
- biological control 11880
- chemical control 12028
- cotton 711
- ecology, interspecific competition 11880
- grapes
- California 11880
- resistance 11880
- monitoring 12028
- roses, California 12028

***Tetranychus quercivorus***

- biology, sex ratio 10238
- genetics
- hybridization 10238
- incompatibility 10938
- reproduction 6009
- Japan 6009

- Quercus crispula*, Japan 10938

***Tetranychus sayedi***

- cassava, Congo 6565
- predators 6565

***Tetranychus turkestani***

- control, chemical control 12028
- monitoring 12028
- roses, California 12028

***Tetranychus urticae***

- acaricides
- effects 434, 4271, 4276, 11599
- resistance 2279, 2724, 4579, 9999
- toxicity 436, 4258, 6342, 7534, 7540, 9563-9565, 9597, 11602
- agricultural chemicals, toxicity 2392
- almonds, California 6700
- apples
- Germany 6642, 10842
- Korea Republic 2550, 5526, 7811
- New York 4553
- resistance 7812, 7818
- South Africa 5522, 8763
- Switzerland 1540, 5528
- Washington 8757
- atmospheric pressure, effects 6051
- azadirachtin, toxicity 11991
- biochemistry, enzymes 87, 5857
- biology 1548, 8740, 8763, 11917
- behaviour 206, 3996, 4271, 4477, 6051, 10618, 10717
- diapause 4005
- environmental factors 7811
- life history 9948
- reproduction 185, 9141
- black currants, Poland 1553
- cassava, Colombia 2515
- control 4544, 6652, 10049, 11866
- biological control 1714, 4553, 4573, 9852, 9859, 12049
- chemical control 1548, 1553, 2226, 2550, 5522, 6670, 10980, 11868, 11917
- integrated control 5517, 6700, 11870
- physical control 7834
- controlled atmospheres, effects 10463
- cotton
- New South Wales 9948, 10923
- resistance 8845, 10921
- crops, resistance 2399
- cucumbers 4355
- cut flowers 10049
- diets 8763
- ecology
- habitats 10923
- life tables 2279
- models 3136
- population density 12024
- population dynamics 2576, 5526
- Europe 4005
- food plants 8740
- USA 10717

***Tetranychus urticae* cont.**

- fruits
- China 7806
- damage 7806
- South Africa 11841
- genetics
- mitochondrial DNA 8201
- population genetics 87
- Gerbera jamesonii* 1714
- grapes
- Sao Paulo 4579
- Ukraine 6670
- groundnuts 5394
- hazelnuts
- damage 11917
- Poland 11917
- Honshu 9563-9565
- hops, Oregon 12049
- insecticides, effects 1710, 10618
- kairomones 8263
- maize 10618
- man, allergies 8355-8356
- natural enemies 5522
- ornamental plants, nurseries, California 9999
- pathogens 2515, 6247, 9502
- peaches, Italy 1548
- pears
- Australia 8767
- damage 8767
- Washington 6652
- Pelargonium hortorum*, resistance 10011
- pesticides
- resistance 7527
- toxicity 4251
- Phaseolus lunatus* 4477
- Phaseolus vulgaris* 1178
- damage 9756
- plant extracts, effects 8487
- pome fruits, Victoria 5517
- Populus tremuloides* 11991
- predators 189, 311, 323, 614, 2576, 3136, 3200, 4098, 4121, 4124, 4355, 5173, 6642, 7334, 7984, 8241, 8263, 8275-8277, 8390, 8740, 9144, 9438-9439, 11841, 12024
- Pueraria lobata*, Japan 614
- pyrroles, toxicity 5279
- raspberries
- British Columbia 9852
- Switzerland 11866
- rearing techniques 1178
- Ribes*, certification 10862
- roses 1710, 3200, 8263
- New York 10980, 12024
- Sao Paulo 2724
- sampling 10980
- strawberries 87
- Finland 7834
- Florida 4573, 11868
- Italy 11870
- Oregon 9859
- resistance 8771
- sweet potatoes
- damage 11801
- Southern Africa 11801
- Taiwan 2226
- Trifolium repens*, North Carolina 5394
- vegetables
- damage 1515
- Poland 1515
- watermelons, Honshu 2576

***Tetranychus viennensis***

- apples
- Anhui 2557
- Beijing 8761
- control 11864
- distribution, Slovakia 7280
- ecology
- distribution 2557, 8761
- population dynamics 9344
- forecasting 9840
- peaches, Ukraine 11864
- tree fruits, China 9344
- Tetraul urogallus*, diets, Lepidoptera 11470
- Tetraonyx**
- biology 6032
- hosts, Apidae 6032
- Mexico 6032



- Tetrapleura tetraptera**  
extracts  
control, *Zonocerus variegatus*, cassava 608  
molluscicides 8957  
physical properties 8957  
insecticidal properties 608
- Tetraponera attenuata**  
biology, nests 5630  
*Gigantochloa scorteichinii*, Malaysia 5630  
*Kermicus wroughtoni*, symbiosis 5630
- Tetrastichus**  
aubergines, fields, Himachal Pradesh 9816  
*Crataegus*, habitats, Washington 2746  
fields, habitats, Maharashtra 5153  
figs, orchards, Iran 3548  
hosts  
    *Ceroplastes rusci* 3548  
    *Chrysoperla carnea* 5153  
    *Contarinia sorghicola* 5428  
    *Epilachna varivestis* 8694  
    *Epilachna vigintioctopunctata* 9816  
    *Lemyra* 700  
    *Nanophyes* 8983  
    *Rhagoletis pomonella* 2746  
insecticides, effects 5428  
*Phaseolus*, fields, El Salvador 8694
- Tetrastichus chrysopae**  
biology 9421  
hosts, *Chrysoperla rufilabris* 9421
- Tetrastichus coccinellae** (see *Oomyzus scapopus*)
- Tetrastichus galactopus** (see *Baryscapus galactopus*)
- Tetrastichus gallerucae** (see *Oomyzus gallerucae*)
- Tetrastichus giffardianus**  
guavas, orchards, Hawaii 8795  
hosts, *Bactrocera dorsalis* 8795
- Tetrastichus howardi**  
control, *Spodoptera litura*, potatoes 1493  
potatoes, fields, Karnataka 1493
- Tetrastichus incertus**  
biology 3229  
hosts, *Hypera postica* 3229, 4460  
lucerne, fields, Minnesota 4460
- Tetrastichus pachydiplisae**, taxonomy, synonyms, *Aprostocetus procerae* 8092
- Tetrastichus procerae**, taxonomy, to *Aprostocetus procerae* 8092
- Tetrastichus purpureus** (see *Aprostocetus purpureus*)
- Tetrastichus schoenobii**  
hosts, *Scirpophaga incertulas* 5441  
rice, fields, Indonesia 5441
- Tetrastichus sempronius**  
fields, habitats, Maharashtra 5153  
hosts, *Chrysoperla carnea* 5153
- Tetrastichus sokolovskii** (see *Oomyzus sokolovskii*)
- Tetratomidae**  
distribution, Slovakia 7281  
indicator species 7281
- Tetraviridae**  
genetics, genes 10411  
hosts, *Helicoverpa armigera* 10411
- Tetreauresta obscuriventris**  
control, *Elephantopus mollis* 11011  
*Elephantopus mollis*, Pacific Islands 11011
- Tetrigidae**  
morphology 3744  
taxonomy 3744
- Tetropium castaneum**  
biology, reproduction 10974  
*Picea abies*, Norway 10974
- Tettigonia cantans**  
distribution, Netherlands 1146  
physiology, sound production 990  
*Tettigonia viridissima*, hybridization 6004
- Tettigonia viridissima**  
physiology, sound production 990  
*Tettigonia cantans*, hybridization 6004
- Tettigoniidae**  
Australia 1802  
biology, reproduction 949  
East Asia 8060  
ecology 3009  
grasslands, Nebraska 2020  
physiology, sense organs 3175
- Tettigoniidae cont.**  
Poland 3009  
predators 2020  
taxonomy 1802, 8060
- Teucrium**, insecticidal properties 2735
- Textiles**, insect pests 8953
- Thaia oryzivora**  
biology, life history 3463  
rice, Bangladesh 3463
- Thailand**  
aubergines, *Thrips palmi*, natural enemies 7797  
bamboos, insect pests 11008  
*Bambusa multiplex*, *Lepidomyctides nagaii* 6836  
Coccoidea, pathogens 6239  
coffee  
    *Xylotrechus quadripes* 6727  
    parasitoids 4644  
Coleoptera 6942, 6946  
cotton, *Helicoverpa armigera* 11970  
crops, *Bactrocera pyrifoliae* 9898  
forest trees, insect pests 8889  
Hemiptera, pathogens 10415  
insecticides, safety 423  
insects 11445  
lakes, insecticide residues 6383  
*Perna viridis*, pesticide residues 10606  
pesticides, usage 3325  
rice, *Nilaparvata lugens* 7705  
*Rivellia* 4048  
*Tadius erihinoides* 12040  
*Thyrsostachys stamensis*, insect pests 2738  
*Varroa sinhai* 3790
- Thalassodes veraria**, mangoes, West Bengal 5558
- Thalictrum**, *Tetranychus merganser*, Shanghai 1830
- Thanasimus**  
biology, behaviour 2390  
*Pinus sylvestris*, habitats, Sweden 2390  
prey, *Tomicus piniperda* 2390
- Thanasimus dubius**, prey, Scolytidae 11976
- Thanasimus femoralis**, taxonomy 8314
- Thanasimus formicarius**  
prey, Coleoptera 8916  
taxonomy 8314
- Thanasimus pectoralis**  
distribution, Germany 8314  
taxonomy 8314
- Thanasimus undatulus**  
attractants 9540  
Oregon 9540  
prey, *Dendroctonus pseudotsugae* 9540
- Thanatephorus sasakii**, *Nilaparvata lugens*, interactions 8668
- Thasus**, taxonomy 9065
- Thasus neocalfifornicus**  
*Prosopis velutina*, USA 9065  
taxonomy, new species 9065
- Thaumaglossa rufocapillata**  
biology 4119  
*Tenodera*, interactions 4119
- Thaumetopoea pityocampa**  
biochemistry, pheromones 9204  
biology 763  
behaviour 11314  
Greece 2872  
morphology 2872  
pheromones, inhibitors 10173  
*Pinus pinaster*  
    damage 7940  
    France 7940  
*Pinus sylvestris*, France 763  
poisoning, dogs 2101, 6156  
Spain 10173
- Thaumetopoea wilkinsoni**  
parasitoids 1696  
*Pinus*, Israel 1696
- Thea sinensis** (see Tea)
- Theba pisana**  
biochemistry, enzymes 435  
biological control agents, evaluation 353  
Europe 1132  
France 353  
molluscicides, toxicity 435  
parasitoids 353  
physiology, water relations 1132
- Thecla anna**, Colombia 5096
- Thecla candidus**, Colombia 5096
- Thecla episcopalis**, Colombia 5096
- Thecla rhapsissima**, Colombia 5096
- Theclinesthes onycha**, forest trees, Australia 10932
- Thecodiplosis brachyntera**  
control 2705  
ecology 2705  
morphology 2705  
*Pinus sylvestris*, Europe 2705
- Thecodiplosis japonensis**  
control 2705  
ecology 2705  
morphology 2705  
*Pinus*, East Asia 2705
- Thelephora terrestris**, *Proisotoma minuta* 5676
- Theobroma**, pollinators 4646
- Theobroma cacao** (see Cocoa)
- Theobroma grandiflora**, *Conotrachelus humeripictus*, Rondonia 10911
- Theophylline**, insecticides, interactions 5283
- Theorema sapho**, Colombia 5096
- Thera obeliscata**, Spain 2028
- Theretra latreilli**  
biology, life cycle 3667  
food plants, Australia 3667
- Theridiidae**  
biology, behaviour 2579  
*Citrus*, orchards, South Africa 2579  
ecology, population dynamics 1417, 11929  
Mexico 5149  
monitoring, traps 11929  
olives, orchards, Italy 11929  
predators 5149  
prey  
    *Atherigona soccata* 1417  
    *Tetranychus cinnabarinus* 10371  
    *Trioza erytreae* 2579  
sorghum, fields, Burkina Faso 1417
- Theridion grillator**, biology, behaviour 6057
- Theridion ovatum** (see *Enoplognatha ovata*)
- Theridion positivum**  
Mexico 5149  
predators 5149
- Therioaphis**  
*Ononis*, Israel 5398  
parasitoids 5398
- Therioaphis trifolii form maculata**  
biology, life tables 10751  
lucerne, resistance 10751
- Thermobia domestica**, biochemistry, enzymes 4921
- Theronia zebra**  
China 1219  
hosts, *Dendrolimus punctatus* 1219
- Thesprotia macilenta**, biology, life cycle 7022
- Thiazole-5-carboxamides**  
synthesis 7540  
toxicity, *Tetranychus urticae* 7540
- Thidiazuron**  
control  
    *Anthonomus grandis*, cotton 8831  
    *Bemisia tabaci*, cotton 3615
- Thimet** (see Phorate)
- Thinopyrum**, *Aceria tulipae*, resistance 1421
- Thiocyanate**, effects, *Locusta migratoria* 2932
- Thiocyclam hydrogen oxalate**  
phytotoxicity, wheat, seeds 11723  
toxicity, *Deroceras reticulatum* 11723
- Thiodan** (see Endosulfan)
- Thiodemeton**  
synergists, interactions 5283  
toxicity, *Sitophilus oryzae* 5283
- Thiodicarb**  
control  
    *Aphis gossypii*, cotton 9960  
    *Chrysodeixis includens* 1474  
    soyabeans 7731  
    Collembola, *Brassica* 6578  
    insect pests, cowpeas 8704  
    Noctuidae, cotton 11969  
    Pentatomidae, rice 1460  
    Tenebrionidae, field crops 5396
- effects  
    rats 2331  
    soil, microorganisms 2363  
    *Somaticus* 4415  
formulations 11968



**Thiodicarb** *cont.*

- mixtures, control, Noctuidae, cotton 11969
- nontarget effects, predatory insects 1633
- phytotoxicity, wheat, seeds 11723
- resistance, *Heliothis virescens* 9584, 10555-10556
- synergism 7731
- toxicity
  - Braconidae 10587
  - Deroceras reticulatum* 11723
  - Eulophidae 7577
  - Heliothis virescens* 11968
  - Ostrinia nubilalis* 9579

**Thiofanox**

- control, Aphididae, sugarbeet 698
- resistance, *Plutella xylostella* 10558
- toxicity, *Theba pisana* 435

**Thiometon**

- control
  - Uroleucon carthami*, safflower 3580
  - Zeuzera pyrina*, olives 1604
- resistance, *Aphis gossypii* 10551

**Thiophanate**, mixtures, control, *Stenotarnomus spinki*, rice 9720**Thiophanate-methyl**

- control, *Tetranychus kanzawai*, grapes 5541
- nontarget effects, *Phytoseiulus persimilis* 5541

**Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt**

- resistance, *Plutella xylostella* 9553
- control, *Scirpophaga incertulas*, rice 7491
- resistance

- Cnaphalocrocis medinalis* 10730
- Lepidoptera 6339
- toxicity, *Plutella xylostella* 10669

**Thiram**

- control, *Ophiomyia phaseoli*, *Phaseolus* 10770
- effects, *Sitophilus oryzae* 6889

**Thirmida discinota**

- morphology, larvae 4896
- Passiflora*, Venezuela 4896
- taxonomy 4896

**Thitarodes baimaensis**, morphology, sensilla 8102**Thlaspi arvense**, Syrphidae, Switzerland 2759**Thlaspi montanum** var. *montanum*, *Pieris rapae*, resistance 792**Thomisidae**

- ecology, population dynamics 1417, 5167, 11929
- fields, habitats, Mississippi 5167
- lucerne, fields, Libya 3486
- monitoring, traps 5167, 11929
- olives, orchards, Italy 11929
- prey, *Atherigona soccata* 1417
- sorghum, fields, Burkina Faso 1417

**Thoracotermes macrothorax**

- ecology, soil 8856
- forests, Congo 8856

**Thraustotheca clavata**, insecticides, effects 7591**Threonine**, effects, *Bactrocera cucurbitae* 7029**Thriambus reynaudi**

- sugarcane, Reunion 692
- taxonomy, new species 692

**Thripidae**

- biology, overwintering 9279
- cassava, fields, Congo 6565
- Central Europe 3779
- culinary herbs, Florida 6832
- food plants, North Carolina 9279
- grain legumes
  - resistance 587
  - Rwanda 587
- morphology 6977
- Philippines 6977
- plant pathogens, transmission 5399, 7783
- predators 4124
- prey, Aphididae 6565
- Taiwan 7292
- taxonomy 3737, 7318
- tomatoes, Mexico 7783

**Thrips** (see Thysanoptera)**Thrips**

- crops, damage 1407
- Jammu and Kashmir 1407
- taxonomy 919

**Thrips angusticeps**

- cabbages, France 1505
- nectarines
  - damage 6661
  - Spain 6661
- predators 1505

**Thrips atratus**, grasslands, Poland 8672**Thrips aurulentus**

- Cronartium comandrae* 919
- taxonomy, new species 919

**Thrips calcaratus**, *Tilia americana*, resistance 12001**Thrips crawfordi**

- food plants 919
- taxonomy, new species 919

**Thrips fallaciosus**

- food plants 919
- taxonomy, new species 919

**Thrips hawaiiensis**, mangoes, Andhra Pradesh 4596**Thrips intricatus**

- Salix* 919
- taxonomy, new species 919

**Thrips konoi**

- food plants 919
- taxonomy, new species 919

**Thrips major**

- biology 1548
- control, chemical control 1548
- peaches, Italy 1548

**Thrips nelsoni**

- Abies lasiocarpa* 919
- taxonomy, new species 919

**Thrips nigropilosus**

- biology 7006
- development 529
- environmental factors 4014
- food plants 529
- morphology 7006
- Rhododendron*, Georgia 1711

**Thrips obscuratus**

- Capsicum*, New Zealand 6613
- control

- biological control 6613
- controlled atmospheres 6266
- Cytisus scoparius*, New Zealand 6849
- kiwifruits, New Zealand 5546, 8777
- plant pathogens, transmission 5546, 8777

**Thrips orientalis**

- Citrus*, Florida 5554
- distribution, USA 5554

**Thrips palmi**

- aubergines
  - Honshu 9814
  - Japan 7796
  - Thailand 7797
- biological control agents, evaluation 7796
- biology 1411
- life cycle 624
- Citrus*, Florida 5554
- control 1411
- chemical control 5462, 9814, 11775
- distribution, USA 5554
- field crops, Venezuela 624
- food plants, Venezuela 5462
- greenhouse crops, Czech Republic 1411
- insecticides, resistance 10562
- Japan 10562
- parasitoids 7797
- plant extracts
  - antifeedants 632
  - toxicity 11583
- vegetables, Florida 11775

**Thrips paramadronii**

- Cytisus* 919
- taxonomy, new species 919

**Thrips pruni**

- Prunus emarginata* 919
- taxonomy, new species 919

**Thrips pseudoflavus**

- food plants 919
- taxonomy, new species 919

**Thrips setosus** (see *T. temporatus*)**Thrips stannardi**

- Fraxinus* 919
- taxonomy, new species 919

**Thrips tabaci**

- Allium*, Germany 10796
- asparagus
  - commodities, New Zealand 6597
  - South Africa 5502
- biology 1411, 11834
- environmental factors 4505
- overwintering 9279
- cabbages
  - Denmark 621
  - France 1505
- Capsicum*, New Zealand 6613
- control 1411, 6597
- biological control 6613
- chemical control 616, 2520-2521, 4504, 7765, 9849
- cultural control 621
- integrated control 10796
- cucumbers 11834
- ecology, population dynamics 6085, 9755
- food plants, North Carolina 9279
- grapes
  - Chile 9867
  - damage 9867
- greenhouse crops
  - Czech Republic 1411
  - Russia 2529
- Honshu 6085
- leeks, Belgium 616
- nectarines
  - Chile 9849
  - damage 6661, 9849
  - Spain 6661
- onions
  - economic thresholds 4504
  - Haryana 2521
  - India 7765
  - Maharashtra 2520
  - Parana 4504-4505
  - Quebec 8721
- Phaseolus vulgaris*, Maryland 9755
- plant pathogens, transmission 9279
- predators 1505, 8390
- sampling 8721

**Thrips temporatus**

- ecology, population dynamics 2576
- plant pathogens, transmission 3529
- Solanaceae 3529
- watermelons, Honshu 2576

**Thripsaphis balli**

- Cyperaceae, China 6956
- distribution, China 6956

**Thripsaphis cyperi wulingshanensis**

- Cyperus*, Hebei 6956
- taxonomy, new subspecies 6956

**Thripsaphis ossiannilisoni hebeiensis**

- Cyperus*, Hebei 6956
- taxonomy, new subspecies 6956

**Thrypticus smaragdinus**, distribution, UK 7290**Thuja**

- Argyresthia*, Switzerland 10979
- Coleoptera, Switzerland 12031
- Phloeosinus*, Austria 10977

**Thuja orientalis**

- Cinara cupressi*, Bulgaria 755
- Neopitirimerus playeladi*, Beijing 10104

**Thuja plicata**, Scolytidae, British Columbia 6778**Thuricide** (see *Bacillus thuringiensis* subsp. *aizawai*)**Thuricide HP** (see *Bacillus thuringiensis* subsp. *kurstaki*)**Thuringiensin**

- control, *Helicoverpa armigera*, cotton 10912
- nontarget effects, predatory insects 10912

**Thylacitinae**

- biology, seasonal abundance 4571
- raspberries, Quebec 4571

**Thyme** (see *Thymus vulgaris*)**Thymelicus lineola**, distribution, Manitoba 2034**Thymol**

- toxicity
  - Apis mellifera* 8571
  - Varroa jacobsoni* 8571

**Thymus praecox**, *Chrysolina cerealis*, UK 8287**Thymus serpyllum**, oils, effects, *Acanthoscelus obtectus* 5692



**Thymus vulgaris**

*Coleophora pyrenaica*, Spain 584  
extracts, repellents, *Helix aspersa* 7991  
oils, effects, *Acanthoscelides obtectus* 5692

**Thyocyclam**, effects, *Frankliniella occidentalis* 11581**Thyrecephalus interocularis**

bananas, fields, Kenya 5550  
biology, development 5550  
prey, *Cosmopolites sordidus* 5550

**Thyrididae**

collections 6974  
Korea Democratic People's Republic 6974

**Thyridopteryx ephemeriformis**

*Juniperus*  
Kentucky 7969  
varietal susceptibility 7969

**Thyridota dispar**

Namibia 9288  
songs 9288

**Thyrintina arnobia**, *Eucalyptus*, Brazil 1660**Thyrintina leucoceraea**

*Eucalyptus*, Brazil 1660  
*Eucalyptus urophylla*, Minas Gerais 4694

**Thyroxine**, effects, *Bombyx mori* 8476**Thysostachys siamensis**, insect pests, Thailand 2738**Thysanoplasia orichalcea**

biology 8693  
cabbages, Himachal Pradesh 4513  
ecology, population dynamics 4513  
fodder plants, India 1469  
insecticides, toxicity 8684  
natural enemies 1469  
physiology, nutrition 6706  
soyabeans  
resistance 8693  
Zimbabwe 8691  
sunflowers 6706  
*Trifolium alexandrinum*, Himachal Pradesh 8684

**Thysanoptera**

biology 3929, 7163  
overwintering 9279  
cabbages, France 1505  
*Capsicum*, Italy 10831  
chrysanthemums, Honshu 10014  
control  
biological control 10465, 10863, 10990  
chemical control 3424, 8700  
cultural control 10795  
cotton, resistance 2630  
crops  
Japan 5813  
Sweden 1300  
Cycadaceae, Australia 5622  
distribution  
Manipur 10312  
Puerto Rico 10326  
Slovenia 3127  
ecology 3929  
arthropod communities 11403  
population dynamics 10695  
models 5113  
*Eucalyptus*, habitats, Italy 5639  
fertilizers, effects 10695  
field crops, Estonia 10695  
food plants, North Carolina 9279  
fruit vegetables, Austria 10465  
fungicides, effects 2324  
greenhouse crops, Georgia 787  
kiwifruits, France 1561  
leeks, Belgium 10795  
lentils, fields, Turkey 1482  
morphology 2873, 6977  
ornamental plants  
Austria 10465  
Germany 10990  
parasitoids 10014  
pathogens 11516  
Philippines 6977  
phylogeny 2873  
predators 10, 1505, 5813  
prey  
*Atherigona soccata* 2440  
*Phoracantha semipunctata* 5639  
rice, Philippines 11743

**Thysanoptera cont.**

Senegal 8094  
sorghum, fields, Burkina Faso 2440  
strawberries, Germany 10863  
Taiwan 7292  
taxonomy 787, 5554, 6977, 8094, 11743  
*Vigna radiata*, Indian Punjab 8700  
wheat, Germany 2324

**Tibicen**

North America 11318  
sound production 11318

**Tibicen linnei**

biology, sound production 5026  
songs 5026

**Tibicinidae**

North America 11318  
sound production 11318

**Tibilis**, taxonomy 3768**Tibraca limbativentris**

biology, life cycle 7695, 9725  
control, chemical control 1460  
natural enemies 9725  
pathogens 8663  
rice 7695

Colombia 9725

Rio Grande do Sul 1460

Santa Catarina 8663

**Tilapia nilotica** (see *Oreochromis niloticus*)**Tilia**

*Bucculatrix thoracella*, Netherlands 10952  
*Salebriopsis albicilla*, Spain 4685

**Tilia americana**

extracts, effects, *Lymantria dispar* 736  
*Lymantria dispar*, resistance 736  
*Thrips calcaratus*, resistance 12001

**Tilia cordata**

*Eucallipterus tiliae*  
California 8887  
resistance 8887  
*Hyphantria cunea*, Italy 11703  
Lepidoptera, Finland 2657  
*Oxycaenus lavatae*, Yugoslavia 1680  
*Pulinaria regalis* 5634

**Tilia europaea**

Eriophyidae  
galls 7930  
UK 7930

*Eucallipterus tiliae*  
California 8887  
resistance 8887

**Tilia japonica**, *Pidonia tsuyukii*, Honshu 5707**Tilia platyphyllos**

*Eucallipterus tiliae*  
California 8887  
resistance 8887

**Tiliaceae**, arthropods, UK 2397**Tillage**

effects  
beneficial insects 2130  
Carabidae 8375  
*Diloboderus abderus* 7246  
entomogenous fungi 2485  
pests, cereals 9671  
Termitidae 7678

**Tillandsia**, *Metamasius callizona*, North America 5385**Tillandsia utriculata**, *Metamasius callizona*, Florida 5385**Timaspis luteipes**

taxonomy  
from *Aylax* 4844  
synonyms, *T. papaveris* 4844

**Timaspis papaveris**, taxonomy, synonyms, of *T. luteipes* 4844**Timaspis pilicornis**, taxonomy, from *Aylax* 4844**Timavia amoena**, tea, plantations, Hunan 8382**Tinda indica**, cashews, Andaman and Nicobar Islands 1586**Tinea dubiella**

growth regulators, effects 6875  
plant extracts, effects 8953  
textiles 8953

**Tinea pellionella**

plant extracts, effects 4792  
wool 4792

**Tinea translucens**

plant extracts, effects 4792

**Tinea translucens cont.**

wool 4792

**Tineoidea**

ecology, population dynamics 728  
forests, Kalimantan 728  
monitoring, traps 728

**Tineola bisselliella**

biology, environmental factors 239  
control, controlled atmospheres 1762  
growth regulators, effects 6875  
insect repellents, toxicity 526  
museums, Germany 1762  
plant extracts, effects 4792, 8953  
textiles 8953  
wool 4792

**Tingitidae**, distribution, Israel 2026**Tingis tecomae**, *Tabebuia ochracea*, Minas Gerais 3647**Tinocallis takachihoensis**, distribution, Korea Republic 6964**Tinospora smilacina**

*Eudocima*, Queensland 5708  
*Eudocima fullonia* 800

**Tiphiidae**

hosts

*Phyllophaga anxia* 302

Scarabaeidae 10007

Quebec 302

taxonomy 10007

**Tipula**

barley 8640  
biology, life history 3454  
control, chemical control 3454, 8640  
ecology, population dynamics, models 535  
forecasting 535  
Korea Republic 6951  
rice, Heilongjiang 3454  
taxonomy 6951

**Tipula luteipennis**, physiology, sense organs 3843**Tipula oleracea**

biological control agents, evaluation 7415  
pathogens 2178, 7395, 7405

**Tipula pagana**, physiology, sense organs 3843**Tipula paludosa**

biological control agents, evaluation 7415  
biology 5450  
cell lines, pathogens 2171  
control 5450  
food plants 7722  
grasses, Washington 5450  
lawns and turf, UK 10988-10989  
pathogens 2171, 2178  
physiology, sense organs 3843, 7083

**Tipulidae**

biology 1071  
dispersal 3928  
control, chemical control 2472  
evolution 928  
grasslands, Netherlands 2472  
Norway 1071

**Tirumala**

biochemistry, secretions 4937  
Kenya 4937

**Tischeria decidua**

distribution, Japan 6757  
*Quercus*, Japan 6757

**Tischeria naraensis**

*Quercus*, Japan 6757  
taxonomy, new species 6757

**Tischeria quercifolia**, *Quercus*, Japan 6757**Tùhonia diversifolia**, extracts, antifeedants, insect pests 10016**Tùhrone major**, biology, life cycle 7022**Toads**, prey, *Eremothermes paradoxalis* 11465**Toarrow-BT** (see *Bacillus thuringiensis* subsp. *kurstaki*)**Tobacco** (*Nicotiana tabacum* and *N. rustica*)

Aphididae, Taiwan 2622  
*Bacillus thuringiensis*, transgenic plants 7500

*Bemisia tabaci*, Costa Rica 629  
commodities

insect pests  
control, books 8040  
Costa Rica 3704

*Lasioderma serricornis* 6898, 12075  
Andhra Pradesh 8019



**Tobacco cont.**

- Epitrix hirtipennis*, Greece 6730  
 extracts  
   insecticidal properties 8958  
   toxicity, *Tribolium castaneum* 8958  
*Faustinus apicalis*, Colombia 5600  
 fields, natural enemies, Greece 8826  
 genetic engineering, pest resistance 2621  
 habitats, *Cotesia congregata*, Maryland 4641  
*Helicoverpa assulta* 7535  
*Heliothis* 10265  
 Lepidoptera, resistance 5269  
*Manduca quinquemaculata*, Ontario 702  
*Manduca sexta*  
   Maryland 4641  
   resistance 703, 2233, 8743, 9944  
*Myzus nicotianae*  
   Greece 8826  
   North Carolina 4647  
   Rio Grande do Sul 8827  
*Myzus persicae* 9519  
   Karnataka 5599  
   resistance 9945  
 odours, effects, *Myzus persicae* 7981  
 pest resistance, genetic engineering 7885, 9946  
 pesticides, legislation 7601  
*Phthorimaea operculella*  
   China 2620  
   Turkey 11710  
*Spodoptera litura*, Tamil Nadu 3609  
 transgenic plants, toxicity, Noctuidae 7500  
*Trialeurodes vaporariorum* 8261  
**Tobacco etch potyvirus**  
 vectors  
   Aphidoidea 7783  
   *Myzus persicae* 3286  
**Tobacco leaf curl bigeminivirus**, vectors,  
*Bemisia tabaci* 2530  
**Tobacco vein mottling potyvirus**, vectors,  
*Myzus persicae* 3286  
**Tocoyena formosa**, extracts, effects, *Atta sexdens* 7999  
**Togo**  
 cotton, *Cryptophlebia leucotreta* 8619  
 food plants, *Mussidia nigrivenella* 8619  
 mangoes, *Rastrococcus invadens* 1562  
*Prostephanus truncatus* 7436  
**Tolazoline**, effects, *Spodoptera litura* 7033  
**Tolypocladium**  
 hosts, *Agrotis segetum* 7430  
 taxonomy 4157  
**Tolypocladium cylindrosporum**, control,  
*Sylvicola cinctus* 389  
**Tomatine**, effects, *Manduca sexta* 5858  
**Tomato geminivirus**, vectors, *Bemisia tabaci* 626  
**Tomato leaf curl bigeminivirus**, vectors,  
*Bemisia tabaci* 7782  
**Tomato mottle geminivirus**  
 vectors  
   *Bemisia argentifolii* 3282  
   *Bemisia tabaci* 6603  
**Tomato spotted wilt tospovirus**  
 genetics, RNA 11516  
 hosts, Thysanoptera 11516  
 vectors  
   Frankliniella 8741  
   Frankliniella occidentalis 3672, 5399, 6263, 7476, 10831  
   Frankliniella schultzei 8736  
   Thripidae 7783  
   Thrips temporatus 3529  
**Tomato spotted wilt virus**, vectors,  
 Thripidae 9279  
**Tomato yellow leaf curl bigeminivirus**  
 vectors  
   *Bemisia tabaci* 6602-6603, 10826  
   reviews 10825  
**Tomato yellow mosaic bigeminivirus**, vec-  
 tors, *Bemisia tabaci* 2534  
**Tomatoes** (*Lycopersicon esculentum* and *L. pimpinellifolium*)  
 acaricides, residues 1522  
*Agrotis ipsilon* 4056  
 Aleoerodidae, Israel 9956  
 Aphididae  
   Italy 10824  
   New Zealand 6604

**Tomatoes cont.**

- arthropod pests  
 control, chemical control 2528  
 damage 5504  
 Israel 7785  
 Sao Paulo 2528  
*Bactrocera depressa*  
 damage 6599  
 Korea Republic 6599  
*Bemisia argentifolii* 6606, 11574  
 damage 10817  
 Nova Scotia 8948  
*Bemisia tabaci* 3988, 6602-6603, 7782, 7792, 10819, 10825-10826, 11822  
   Costa Rica 626-630  
   damage 11825  
   Dominican Republic 1523  
   Egypt 8738  
   Guatemala 8742  
   Japan 10821  
   Netherlands 4759  
   Venezuela 2534, 4521  
 Bulgaria, conferences 10066  
*Chrysodeixis includens* 2192  
 commodities  
   growth regulators, residues, analysis 4068  
   insecticides, residues 4523  
   pesticides, residues 5736  
 Egypt 633  
 extracts, antifeedants, *Thrips palmi* 632  
*Faustinus apicalis*, Colombia 5600  
 fields  
   Miridae, Spain 7788  
   Trichogramma pretiosum, Venezuela 4522  
 Frankliniella  
   Florida 8741  
   North Carolina 9809  
 Frankliniella schultzei, Parana 8736  
 greenhouses  
   Macrophophus caliginosus, France 1518  
   predatory mites 5174  
 habitats, *Cotesia congregata*, Maryland 4641  
*Helicoverpa armigera* 179  
 Cote d'Ivoire 10682  
 Czech Republic 10820  
 damage 10820  
 Himachal Pradesh 1520  
 India 1521  
 New Zealand 6605  
 Orissa 2533  
 Spain 6609, 9810  
 varietal reactions 2533  
 Hemiptera, Pakistan 631  
 Homoptera, Egypt 8737  
 insect pests 7781  
   California 635  
   control, integrated control 10823  
   damage 6611  
   Jammu and Kashmir 6601  
   Mexico 7783  
   resistance 635  
   Russia 2529  
   sampling 6610  
   Sardinia 2532  
   Venezuela 7784  
 insecticides  
   effects 3525, 9619, 9812-9813  
   persistence 2192, 11824  
   residues 4528, 5358, 9395  
   determination 11402  
 integrated pest management  
   California 7789  
   Nicaragua 636  
   Sao Paulo 8733  
   Spain 6610  
*Keiferia lycopersicella*, Jamaica 2531  
 Lepidoptera  
   California 6407  
   Israel 4527  
   resistance 5268  
*Leptinotarsa decemlineata* 8732  
   New Jersey 11827  
*Liriomyza bryoniae*, Russia 11828  
*Liriomyza sativae*, Venezuela 4520  
*Liriomyza trifolii* 10275  
   Japan 10355

**Tomatoes cont.**

- Macrosiphum euphorbiae*  
 North Carolina 4525  
 Turkey 1519  
 varietal susceptibility 1519  
*Manduca sexta*  
 Maryland 4641  
 resistance 8743  
*Neoleucinodes elegantalis* 1516  
 resistance 7791  
 Sao Paulo 9811  
 Venezuela 1517  
*Nezara viridula*, South Carolina 4107  
 Noctuidae, resistance 2233  
 odours, effects, *Cotesia glomerata* 208  
 pest control  
   Ontario 8480  
   Pennsylvania 8731  
   Poland 1513  
   Venezuela 7786  
 pesticides  
   application 6608  
   residues, determination 12067  
*Phthorimaea operculella*  
   Israel 4388  
   Turkey 11710  
*Phytoseiulus persimilis*, resistance 3523  
*Planococcus citri* 8739  
 plant extracts, effects 1523  
*Plutella xylostella*, China 3420  
*Podisus maculiventris* 1410  
*Poekilocerus pictus* 2403  
*Rhagoletis tomatii*, Chile 10818  
*Scrobipalpa absoluta* 8735  
 damage 4529  
 Minas Gerais 4530  
 Paraguay 10822  
 resistance 3524, 7787  
 Sao Paulo 2535, 4531  
*Sitotroga cerealella*, Venezuela 4522  
*Spilarctia obliqua* 9748  
*Spilostethus hospes*, India 8622  
*Spodoptera exigua*  
   California 4526  
   resistance 4526, 7790  
*Spodoptera littoralis* 5505  
*Spodoptera litura* 3419  
*Tetranychus cinnabarinus*, Poland 10816  
*Tetranychus urticae*  
   predators 8740  
   resistance 2399  
 transgenics, *Bacillus thuringiensis* 634  
*Trialeurodes vaporariorum* 2240, 8734  
   Beijing 11829  
   damage 11823  
   France 1518, 8378  
   Honshu 6607  
   Hungary 2733  
   Italy 11826  
   resistance 4524  
   Uzbekistan 11823  
   Turkey 1470  
   varietal reactions 633  
**Tomicobia tibialis**  
 biology, behaviour 7953  
 hosts, *Ips pini* 7953  
*Pinus ponderosa*, habitats, California 7953  
**Tomicus minor**  
*Pinus sylvestris*  
   damage 761  
   Sweden 761  
**Tomicus piniperda**  
*Acanthocinus aedilis*, interactions 8916  
 biology 10965  
   behaviour 2390, 9991, 10964  
   environmental factors 3997  
   reproduction 8916  
 control, chemical control 9991  
 distribution, North America 6793  
 ecology  
   distribution 10964  
   interspecific competition 6793  
   population dynamics 2390  
 forest trees, New York 3658  
 fungi, interactions 2695  
 monitoring, traps 2390, 3658  
*Pinus* 8916  
   Yunnan 10965  
*Pinus sylvestris*  
   damage 761, 764, 7942



- Tomiscus piniperda** *cont.*  
*Pinus sylvestris* *cont.*  
Finland 764  
France 2695, 7942  
Indiana 9991  
Michigan 6793  
resistance 2702  
Sweden 761, 2390, 2702  
*Pinus yunnanensis*, Yunnan 10964  
predators 2390, 8916
- Tomoceros minor**, cadmium, toxicity 9543
- Tomocerus varius**, forests, Honshu 9989
- Tomostethus nigrinus**, distribution, Iran 3121
- Tonga**  
coconuts  
*Graeffea crouanii* 10899  
plantations, beneficial insects 10899
- Colocasia esculenta*  
*Aphis gossypii* 7489  
parasitoids 7489
- Elephantopus mollis*, *Tetreuaresta obscuriventris* 11011
- Musa*, *Pentalonia nigronervosa* 7489
- Toona ciliata**  
*Hypsipyla grandella*, resistance 6769  
*Hypsipyla robusta* 8890  
Pakistan 8850  
Uttar Pradesh 1676
- Toria** (*Brassica campestris* var. *toria*)  
*Brevicoryne brassicae* 5501  
insect pests, Himachal Pradesh 2602  
*Lipaphis erysimi*, Orissa 9796  
*Myzus persicae* 7774
- Torpedo nobiliana**, insecticides, effects 9615
- Torque** (*see* Fenbutatin oxide)
- Torreya**, *Metasequoia miris carvalhoi*, Hubei 11125
- Torreya nucifera**, *Aspidiotus cryptomeriae* 10960
- Torrubiella**, hosts, Coccoidea 6239
- Torrubiella iriomoteana**, hosts, Coccoidea 6239
- Torrubiella siamensis**, hosts, Coccoidea 6239
- Tortricidae**  
apples 5527  
avocados, commodities, New Zealand 11038  
control  
chemical control 1557, 11038  
integrated control 11870  
mating disruption 2543  
trapping 5527  
*Eucalyptus cloeziana*  
damage 7913  
Minas Gerais 7913  
forests, Virginia 11986  
fruits, Europe 2543  
grapes, France 1557  
insects as food 11470  
monitoring, traps 2235, 2569  
parasitoids 11108  
strawberries, Italy 11870  
taxonomy 3737  
temperate fruits, Hungary 2235
- Tortricoidea**  
ecology, population dynamics 728  
forests, Kalimantan 728  
monitoring, traps 728
- Tortrix viridana**  
broadleaves, Ukraine 1653  
control, chemical control 10940  
parasitoids 1653  
predators 10940  
*Quercus pyrenaica*, Spain 10940  
*Quercus robur*  
damage 1665  
Poland 1665
- Torymidae**  
ecology, habitats 4462  
hosts, insect pests 4462  
sesame  
Burkina Faso 8812  
varietal susceptibility 8812  
*Trifolium pratense*, habitats, Germany 4462
- Toryminae**, taxonomy 11098
- Torymus**  
biology, population dynamics 9993  
hosts, *Kaltenbachiola strobi* 9993  
*Picea abies*, forests, Switzerland 9993
- Torymus** *cont.*  
taxonomy 11098
- Torymus aceris**  
Acer, forests, Europe 1826  
hosts, *Megaselia giraudii* 1826  
taxonomy, new species 1826
- Torymus argei**  
Germany 1826  
hosts, *Arge* 1826  
taxonomy, new species 1826
- Torymus beneficus**  
biochemistry, enzymes 7045  
biology, development 4910  
fields, habitats, Japan 7045  
hosts, *Dryocosmus kuriphilus* 7045  
morphology 7045
- Torymus chloromerus**  
biology, life cycle 5155  
ecology, population dynamics 5155  
hosts, *Dasineura gleditschiae* 5155
- Torymus confinis**  
Germany 1759  
hosts, *Dasineura urticae* 1759
- Torymus erucarum**, taxonomy, synonyms, *Diplolepis fuliginosa* 9049
- Torymus geranii**  
hosts, *Dryocosmus kuriphilus* 10366  
Korea Republic 10366
- Torymus grahami**  
Europe 1826  
taxonomy, new species 1826
- Torymus laricis**  
hosts, *Dasineura laricis* 1826  
Larix, forests, Europe 1826  
taxonomy, new species 1826
- Torymus lythri**  
hosts, Cecidomyiidae 1826  
taxonomy, new species 1826
- Torymus micrurus**  
Europe 1826  
taxonomy, new species 1826
- Torymus nemorum**  
Europe 1826  
taxonomy, new species 1826
- Torymus nigratarsus**  
hosts, *Taxomyia taxi* 1134  
*Taxus baccata*, habitats, UK 1134
- Torymus pascuorum**  
*Cytisus scoparius*  
Europe 1826  
galls 1826  
taxonomy, new species 1826
- Torymus rhamni**  
hosts, Cecidomyiidae 1826  
taxonomy, new species 1826
- Torymus sinensis**  
biochemistry, enzymes 7045  
biology, development 4910  
control, *Dryocosmus kuriphilus*, chestnuts 7860  
ecology, population dynamics 7860  
fields, habitats, Japan 7045  
hosts, *Dryocosmus kuriphilus* 7045, 10366  
Korea Republic 10366  
morphology 7045
- Torymus spaici**  
Europe 1826  
taxonomy, new species 1826
- Torymus urticae** (*see* *T. confinis*)
- Totiviridae**, hosts, Pentatomidae 10434
- Toumeyella lignumvitae**  
Formicidae, interactions 11  
*Guaiacum sanctum*, Florida 11  
predators 11  
taxonomy, new species 11
- Toumeyella pini**  
insecticides, resistance 7945  
*Pinus taeda*  
Louisiana 7945  
outbreaks 7945
- Toxaphene** (*see* Camphchlor)
- Toxins**  
analogues, toxicity, *Heliothis virescens* 8472  
*Bacillus thuringiensis* 2196, 3265  
genetics 11491  
toxicity  
*Anomala cuprea* 7456  
Lepidoptera 1268, 7463, 11498  
*Plutella xylostella* 1245
- Toxins** *cont.*  
*Beauveria bassiana*, effects, *Helicoverpa armigera* 11475
- Toxoptera**, predators 1069
- Toxoptera aurantii**  
biological control agents, evaluation 5256  
biology 3556  
*Citrus* 4587  
Florida 4593  
Japan 3556  
control, chemical control 3584  
ecology, environmental factors 11341  
ectoparasites 9352  
groundnuts, Maharashtra 3584  
parasitoids 4593, 8366, 11898  
plant pathogens, transmission 3556, 4587  
predators 5256, 8824  
tea  
China 7883  
India 8824  
West Bengal 5593
- Toxoptera citricidus**  
biology 3556  
*Citrus* 4587  
Central America 4591  
Cuba 6682  
Japan 3556  
distribution  
Caribbean 11368  
Central America 4591  
parasitoids 11898  
plant pathogens, transmission 3556, 4587, 11368  
taxonomy, nomenclature 4826
- Toxotrypana curvicauda**  
biology, reproduction 4602  
*Morrenia odorata*, Florida 2588  
pawpaws 4602
- Toya propinqua**  
barley, damage 11727  
ecology, population dynamics, models 7648  
food plants, Argentina 7648  
plant pathogens, transmission 7648
- Trabala vishnou**, plant extracts, antifeedants 10016
- Trachea atriplicis**  
Beijing 5272  
monitoring, traps 5272
- Trachycarpus fortunei**, *Cephrenes augiades sperthias*, Victoria 10995
- Trachymyrmex septentrionalis**  
biology, population dynamics 4082  
Florida 4082  
New York 4082
- Trachyphloeus bifoveolatus**  
biology, seasonal abundance 4571  
raspberries, Quebec 4571
- Trachyrhachys kiowa**  
biology, behaviour 5448  
grasslands, South Dakota 9742  
interactions, arthropods 9742  
rangelands, Wyoming 5448
- Trachytes balazsi**  
taxonomy, new species 8070  
USA 8070
- Tradescantia**  
*Oulema elongata* 917  
*Oulema laticollis* 917
- Tradescantia fluminensis**, *Mouralia tinctorides* 705
- Tradescantia hirsuticaulis**, *Jalysus spinosus*, South Carolina 4768
- Tradescantia ohiensis**, *Mouralia tinctorides* 705
- Tradescantia pallida**, *Mouralia tinctorides* 705
- Tradescantia zebrina**, *Mouralia tinctorides* 705
- Tragus koelerioides**, *Messor capensis*, South Africa 8678
- Trail pheromones**  
*Aenictus* 3827  
*Ectatomma ruidum* 11193  
*Lasius fuliginosus* 9413  
*Megaponera foetens* 3930  
*Pheidole pallidula* 7064  
*Reticulitermesantonensis* 766  
*Reticulitermes speratus* 2140  
*Tetramorium aculeatum* 287



**Tralomethrin**

control, insect pests, soyabeans 9750  
toxicity

*Heliopsis virescens* 8842  
*Rhagoletis pomonella* 9569

**Tranosema**

hosts, *Zeiraphera* 3662

*Larix*, forests, Hebei 3662

**Transgenic plants**

effects, soil fauna 9285

pest resistance 2232

**Transgenics**

potatoes, *Bacillus thuringiensis* 9785

tomatoes, *Bacillus thuringiensis* 634

**Trapa natans**, insecticides, residues 10815**Traps**

arthropods 4716

*Ceratitis capitata* 6285, 7506

Coleoptera, woodlands 3632

*Diabrotica* 4425

*Frankliniella occidentalis*, pot plants  
12020

insect pests, *Eucalyptus* 8871

*Lyctocoris campestris*, maize, commodi-  
ties 9011

Rhopalocera 5114

Scolytidae, Pinopsida 6778

*Sogatella furcifera*, rice 6494

bait traps

Acrididae, rangelands 5446

Agriotes, maize 1415

*Anaglyptus subfasciatus* 4372

*Anastrepha*, mangoes 2583

*Anastrepha fraterculus*

*Acca sellowiana* 4605

guavas 4598

peaches 4567

*Anastrepha grandis*, melons 8796

*Anomala octiescostata*, lawns and turf  
1891, 2766

*Atherigona orientalis* 8116

*Bactrocera* 1292, 10490

*Bactrocera latifrons* 7507

*Carpophilus*, stone fruits 7822

*Ceratitis capitata*

*Citrus* 7849

oranges 11893

Coleoptera, *Eucalyptus* 3637

*Coptotermes formosanus* 6893

*Cosmopolites sordidus*, bananas 7841

*Delia platura* 9388

*Drosophila*, cherries 7824

Drosophilidae 1180

Elateridae 3309, 6289

Formicidae, forests 8858

*Glischrochilus quadrisignatus*, maize  
11733

*Gryon pennsylvanicus* 7800

*Hylobius abietis*

forests 7905

*Pinus* 2704

insect pests 5549, 11553

*Ips typographus*, *Picea abies* 3660

*Iridomyrmex humilis* 2094

*Linepithema humile*, *Citrus* 3552

*Macroductylus*, maize 11730

*Maladera matrida*, groundnuts 10900

*Melanotus senilis* 6288

*Meligethes aeneus*, sarson 7775

Nitidulidae, dates 6674

*Oryctes rhinoceros*, coconuts 3583

*Pheidole megacephala*, plantation  
crops 4642

*Popillia japonica* 6054

*Rhagoletis pomonella*, apples 516

*Rhynchophorus cruentatus* 3993

*Rhynchophorus palmarum*, oil palms  
2594

Scolytidae 3658

Tephritidae

fruits 5548

subtropical fruits 7840

*Tomicus piniperda*, *Pinus sylvestris*  
2390

Tortricidae 3536

*Trichoplusia ni*, cotton 10920

*Varroa jacobsoni* 7352

*Xyleborus validus*, *Cryptomeria*  
*japonica* 7964

coloured sticky traps

*Frankliniella*, tomatoes 9809

**Traps cont.**

coloured sticky traps cont.

*Frankliniella occidentalis* 3305

cucumbers 9825

*Hoplocampa testudinea*, apples 11855

insect pests, greenhouse crops 9538

*Oncastichus goughi*, *Chamaelaucium*  
*uncinatum* 10997

coloured traps

*Bactrocera oleae*, olives 6710

insect pests, greenhouse crops 1299

emergence traps

insects

grasslands 4452

peas 9759

flight traps

Byrrhidae, raspberries 6662

insects, forests 2649

funnel traps, *Exomala orientalis* 1892

light traps

*Agrotis ipsilon* 6084

*Atrijuglans hetaohei* 8465

*Carposina sasakii* 10889

*Cicadella viridis*, fruits 11840

coconuts, insects 3582

Coleoptera, *Eucalyptus* 3637

*Coniesta ignefusalis*, millets 8657

*Helicoverpa armigera*, cotton 9961

*Heterocera* 229

insect pests 5549, 7509

books 6927

rice 1453

insects, forests 728

Lepidoptera

*Capsicum annuum* 11832

sugarcane 11949

*Lymantria* 10489

*Maladera matrida* 3311

*Melanotus senilis* 6288

*Nephotettix* 8291

Noctuidae 10300

cauliflowers 11809

*Nysius plebeius*, chrysanthemums  
7979

*Plutella xylostella* 7236

*Quadricalcarifera punctatella*, *Fagus*  
*crenata* 11989

*Rhyzopertha dominica*, rice, commodi-  
ties 8021

Scarabaeidae 11711

Malaise traps

beneficial insects 4447

insects, olives, orchards 11933

Neuroptera 7196

woodlands 3633

Vespidae, broadleaves, forests 7911

pheromone traps

*Acrobasis vaccinii*, fruit crops 7061

*Acrolepiopsis assectella*, leeks 97

*Anarsia lineatella*, *Prunus* 2564

*Anomala*, fruits 4546

*Anomala albopilosa* 4935

*Anomala cuprea* 266

*Anomala octiescostata*, lawns and turf  
1891

*Anthonomus grandis* 2624

Aphididae 1394

*Argyrotaenia ljungiana* 11853

*Bactrocera* 1293

*Bactrocera dorsalis* 2236

*Bactrocera oleae*, olives 6710

*Bucculatrix thurberiella*, cotton 4663

*Cadra cautella* 2782

*Campylomma verbasci*, apples 6634

*Carpophilus*, stone fruits 7822

*Ceratitis*, grapes 11883

*Ceratitis capitata*, *Citrus* 7849

*Chilo auricilius*, field crops 2471

*Chilo infuscatellus*, sugarcane 7875

*Chilo partellus* 5273

*Chilo suppressalis*, rice 568, 7710,  
10732

*Coniesta ignefusalis*, *Pennisetum*  
*americanum* 9717

*Conogethes punctiferalis*, *Citrus* 7852

*Croesia curvalana*, *Vaccinium* 2566

*Cryptoblabes gnidiella*, grapes 6669

*Cryptophlebia*, *Macadamia*  
*integrifolia* 11919

*Cryptophlebia leucotreta* 9539

*Cydia caryana*, pecans 4611, 9906

**Traps cont.**

pheromone traps cont.

*Cydia funebrana*, plums 10858

*Cydia molesta*, peaches 11863

*Cylas formicarius* 4500

sweet potatoes 4483, 7763, 11802

*Cylas formicarius elegantulus*, sweet  
potatoes 8716

*Delia platura* 9388

*Dendroctonus brevicornis*, Pinopsida  
7936

*Dendroctonus pseudotsugae*, *Pseudot-*  
*suga menziesii* 8925

*Dryocoetes confusus*, *Abies lasio-*  
*carpa* 1702

*Enarmonia formosana* 1547

*Ephestia kuehniella*, flour mills 6878

*Epiphyas postvittana* 5377

*Eucosma notanthes*, *Averrhoa*  
*carambola* 3568

*Exomala orientalis* 1892

*Graphania* 402

*Helicoverpa armigera*

chickpeas 5464

cotton 4652, 6731

grain legumes 3489

tomatoes 6605, 6609

*Hyphantria cunea* 11703

insect pests 1183, 1297, 2389, 5549

apples 1539, 10851

fruits 1294

maize 5419

*Ips*, *Pinus* 1694

*Ips typographus*

forest trees 10959

*Picea jezoensis* 8920

*Lambdina ferdinaria* 4379

*Lambdina fiscellaria*, forest trees  
1890

Lepidoptera 4074, 10483, 11692

*Capsicum annuum* 11832

cotton 1630, 8834

maize 9703

*Lobesia botrana*

grapes 2574, 9875, 11878

vineyards 9874

*Lymantria dispar*

broadleaves 1656

forest trees 404, 2653

*Matsucoccus feytaudi*, *Pinus pinaster*  
5673

*Matsucoccus thunbergianae*

*Pinus thunbergiana* 5672

*Pinus thunbergii* 12014

*Neodiprion sertifer*, *Pinus sylvestris*  
4727

Noctuidae 5272, 9269

*Ostrinia nubilalis* 4375

potatoes 9784

*Paranthrene tabaniformis* 10946

*Pectinophora gossypiella*, cotton 708,  
1627, 3620, 4656, 4671-4672

pests, cotton 3623

*Phthorimaea operculella*, potatoes  
11793

*Phyllonorycter elmaella* 7549

*Phyllonorycter ringoniella*, apples  
11847

*Plutella xylostella* 1506

cabbages 7768

cauliflowers 11808

*Prostephanus truncatus* 8349

*Spondias purpurea* 7932

*Pseudaulacaspis pentagona*, fruits  
11844

Pyrilidae, dates, commodities 851

*Recurvaria* 1530

*Rhagoletis mendax*, *Vaccinium*  
*angustifolium* 9856

*Rhynchophorus* 4376

*Rhynchophorus palmarum*, oil palms  
682

Scolytidae 1650

*Picea* 12016

*Scrobipalpus absoluta*, tomatoes  
4531

Spodoptera, maize 2428

*Spodoptera litura*

field crops 6406

ground



**Traps cont.**

## pheromone traps cont.

## Tortricidae cont.

- apples 5527, 10849
- chestnuts 6703
- fruits 2235

*Trogoderma inclusum* 6290

*Vitacea polistiformis*, grapes 4578

## pitfall traps

Araneae 11929

forests 5626

beneficial arthropods, fields 5167

beneficial insects 6451, 9675

Byrrhidae, raspberries 6662

Carabidae 3427

cereals 4399

forest litter 5102

raspberries 5533

rice, fields 5439

Coleoptera, forests 11978

*Conotrachelus nenuphar*, *Prunus*

6654

*Hyllobius abietis*

forest trees 12006

forests 7905

*Pinus* 2704

*Leptinotarsa decemlineata*, potatoes

4496

*Metamasius hemipterus sericeus* 2239

Nitidulidae, fruit crops 11845

*Pasimachus* 4033

predatory arthropods 5494

wheat 1224, 10693

sex attractant traps, Coleoptera 7906

## sticky traps

*Anthonomus eugenii*, *Capsicum*

annuum 4532

Aphididae, *Pistacia* 5567

*Bemisia tabaci* 5468

cotton 4651

sunflowers 7863

*Ceratitidis capitata* 4367

*Citrus* 7849

*Conotrachelus nenuphar*, *Prunus*

6654

*Frankliniella bispinosa*, *Citrus* 259

*Frankliniella occidentalis*

apples 8759

*Capsicum* 3528

insect pests 5549

wheat, commodities 4808

*Lycotocoris campestris*, maize, com-

modities 9011

*Lymantria dispar*, *Quercus* 2666

parasitoids, tea, plantations 11956

*Pectinophora gossypiella*, cotton 708

*Pseudaulacaspis pentagona*, tea

11955

*Psila rosae*, carrots 1496

*Scirtothrips dorsalis*, tea 2613

*Trialeurodes vaporariorum*, cucum-

bers 4544

## suction traps

Aphelinidae, field crops 6659

Aphididae 7260

vegetables 622

arthropods, grasslands 6126

insect pests 5549

insects 2575

*Lygus hesperus*, strawberries 8772-

8773

*Myzus lythri* 11015

*Myzus persicae* 5109

*Phorodon humuli*, crops 11007

*Scirtothrips dorsalis*, tea 2613

## sweep nets

beneficial arthropods, fields 5167

Chrysopidae 9443

trap bands, *Lymantria dispar*, *Quercus*

365

## trap crops

*Acalymma vittatum*, cucumbers 4541

*Anthonomus grandis*, cotton 5613-

5614

*Cicadella viridis*, fruits 11840

control

*Helicoverpa armigera*, tomatoes

1521

*Leptinotarsa decemlineata*, pota-

atoes 4496

*Plutella xylostella* 5495

**Traps cont.**

## trap crops cont.

insect pests 3299

Lepidoptera, cotton 11963

## water traps

## Aphididae

broccoli 9804

celery 10808

*Phaseolus vulgaris* 5463

potatoes 4495

*Bemisia tabaci* 5468

Curculionidae, rape 2130

*Delia radicum* 7503

*Phthorimaea operculella*, potatoes

11793

## yellow sticky traps

Aphelinidae, orchards 6659

Aphididae, celery 10808

*Bemisia tabaci* 10830

*Coccinella septempunctata*, crops

5392

*Empoasca onukii*, tea 10908

insects, vineyards 6666

*Liriomyza trifolii* 2224

greenhouse crops 10355

*Parnara guttatus* 10474

*Scirtothrips dorsalis*, tea 2613

*Stethorus punctum*, apples 9838

*Trialeurodes vaporariorum*, tomatoes

2240

## yellow traps

Aleyrodidae 10472

Aphididae 5103, 7260, 8324

potatoes 4495

vegetables 622

*Bactrocera oleae*, olives 6710

Coleoptera, rape 5570

*Liriomyza huidobrensis*, potatoes

7749

*Melanotus senilis* 6288

*Napomyza cichorii*, chicory 8730

*Rhagoletis tomatitis*, tomatoes 10818

**Trathala flavoorbitalis**

aubergines, fields, Sri Lanka 1211

biology, reproduction 1211

hosts, *Leucinodes orbonalis* 1211

**Trechaleidae**, checklists, Uruguay 8321**Trechus**

distribution, Serbia 8310

taxonomy 8310

**Trechus discus**

cereals, fields, Finland 7644

green manures, effects 7644

monitoring, traps 5533, 10693

raspberries, fields, Quebec 5533

wheat, fields, Finland 10693

**Trechus micros**

biology, behaviour 203

fields, Belgium 203

**Trechus obtusus**

morphology 942

taxonomy 942

**Trechus quadristriatus**

cereals, fields, Finland 7644

distribution, Serbia 8310

green manures, effects 7644

insecticides, toxicity 10609

morphology 942

taxonomy 942

**Trechus secalis**

cereals, fields, Finland 7644

green manures, effects 7644

**Tree fruits**

integrated pest management, reviews

6629

pest control, France 1529

Tetranychidae, China 9344

Tortricidae, Germany 6626

*Zygina flammigera*, Israel 6627

**Trees**

*Dasineura gleditchiae*, Italy 5155

*Otiorynchus sulcatus*, Germany 10934

**Trematodes tenebrioides**

distribution, Nei Menggu 8673

grasslands, Nei Menggu 8673

**Tremex columba**, parasitoids 2833**Triadimefon**

effects

*Neoseiulus fallacis* 3344

*Spodoptera eridania* 4250

**Trialeurodes abutiloneus**, genetics 5003**Trialeurodes vaporariorum**

biochemistry, lipids 3867, 5936, 7101

biology 5030, 11823

behaviour 2240, 8261

environmental factors 2717

life cycle 8734

control 2529, 4219, 4544

biological control 1518, 1525, 1716,

2532, 6607, 7597, 11823, 11826

chemical control 796, 4544, 9956

integrated control 11826

Costa Rica 5030

cotton 10916

Israel 9956

cucumbers 9508

greenhouses 4544

Italy 1525

*Cucumis melo*, resistance 6623

ecology, population dynamics 9781

economic thresholds 5461

*Euphorbia pulcherrima*, Germany 1716

food plants 8261

fruit vegetables

damage 11823

Uzbekistan 11823

*Gerbera jamesonii* 796

greenhouse crops 4219

Mediterranean Region 11447

Poland 1299

Russia 2529

South Africa 9538

greenhouses, France 8378

hosts, *Bemisia tabaci* 7996

insecticides

effects 6318, 10916

resistance 9956, 11829

toxicity 9596

monitoring, traps 1299, 2240, 9538

morphology

cuticle 11152

sense organs 5832

ornamental plants 2717

parasitoids 3968, 7332, 8734, 10279

sex ratio 7344

pathogens 6246, 7429, 9508

*Pelargonium × domesticum*, resistance

6817

*Phaseolus vulgaris*, Colombia 5461

plant extracts

effects 8487

toxicity 2733

plant pathogens, transmission 2501

potatoes 2501

Hokkaido 9781

predators 8378, 11447

*Rosa*, Tamil Nadu 7968

tomatoes 2240, 8734

Beijing 11829

France 1518, 8378

Honshu 6607

Hungary 2733

Italy 11826

resistance 4524

Sardinia 2532

vegetables 9596

**Triarthria setipennis**

*Acacia longifolia* var. *floribunda*, habi-

tats, Italy 2720

hosts, *Forficula auricularia* 314

rearing techniques 314

**Triaspis**

hosts, *Curculio* 3

Palearctic Region 3

taxonomy 3

**Triaspis curculiovorus**

Hokkaido 3

taxonomy, new species 3

**Triazamate**, resistance, *Myzus* 4976**Triazophos**

control

*Aleurolobus barodensis*, sugarcane

11944

*Callosobruchus maculatus*, cowpeas

1486



**Triazophos cont.**

- mixtures
  - control, insect pests, cotton 7896
  - effects, cotton 8839
- poisoning, *Apis mellifera* 5315
- residues, okras 6624
- resistance

- Helicoverpa armigera* 1327
- Heliothis virescens* 4979

**Tribolium**

- flour mills, Italy 6878
- genetics
  - gene expression 1012
  - genes 11239

**Tribolium anapae**

- biology, development 3706
- cereals, flours 3706

**Tribolium castaneum**

- Aspergillus alutaceus*, interactions 9018
- barley, commodities, Montana 5741
- biochemistry, enzymes 2280, 8121
- biology 3330, 9016
  - behaviour 2161, 3056
  - environmental factors 837, 4018, 6037
  - reproduction 1871-1872
- cassava, commodities 843, 4483
- cereal grains, South Carolina 4809
- cereals, commodities 850, 2786
- control 2780
  - carbon dioxide 6869
  - chemical control 841, 6881, 9013, 10039, 11049
  - controlled atmospheres 850
  - integrated control 9007
  - physical control 6874
- ecology
  - environmental factors 9013
  - population dynamics, models 9343, 11358
- flours 8022, 9016
- forest trees 8890
- fumigants, toxicity 8890
- genetics 3056, 4984
  - artificial selection 6122
  - development 5013
  - DNA 9239
  - gene expression 1011
  - genes 8215, 9245
  - genetic variation 2954, 8022
  - hybridization 6001
  - insecticide resistance 4255
- groundnuts, commodities, Georgia 2780
- growth regulators
  - effects 11652
  - toxicity 1332
- insecticides
  - effects 1324, 2784, 3330, 6343, 8499, 10518
  - repellents 2785
  - resistance 432, 2280, 4255, 9239, 10608, 11585
  - toxicity 833, 1330-1331, 3329, 11043
- maize
  - commodities 2784, 10039
  - Georgia 6874
  - Zimbabwe 841
- monitoring 4808
- monoterpenoids, toxicity 6314, 6320
- pathogens 2161, 7389
- pheromones 519
- physiology 8499
  - enzymes 9163
  - heat production 6892
  - hormones 8121
  - reproduction 1902
- plant extracts
  - attractants 5271
  - effects 843, 2786, 6279, 9163
  - bioassays 410
  - toxicity 6864, 8958
- plant oils, toxicity 6313
- predators 320, 5741, 10383, 11419
- rearing techniques 6116
- rice, commodities 5271
- Spain 3056
- terpenoids, toxicity 8479
- Tribolium confusum*, competition 10242
- wheat
  - commodities 2785, 6864, 6892, 9018, 11043

**Tribolium castaneum cont.**

- wheat cont.
  - commodities cont.
    - Kansas 4808
    - Manitoba 9013
    - Pakistan 9007, 11049

**Tribolium confusum**

- biology
  - behaviour 2161
  - development 3932
  - environmental factors 837
- cereal flours 12077
- cereal grains 11040
- control 5746
  - chemical control 5744, 11040, 12069
- controlled atmospheres, effects 8125
- ecology, population dynamics 9006
- feeds, stores, Manitoba 9006
- flours 6880
- insecticides, effects 6328
- ornamental plants, commodities 5746
- pathogens 2161, 7389, 7461
- pheromones 519
- physiology
  - enzymes 8125, 9163
  - heat production 6892
- plant extracts
  - effects 9163
  - toxicity 8026
- radiation, effects 12077
- soyabeans, commodities 12069
- symbionts, fertility 8998
- Tribolium castaneum*, competition 10242
- UK 5744
- wheat, commodities 840, 6892
- wheat flour 3932

**Tribolium destructor**, biochemistry, chemical composition 4974**Tribolium freemani**

- biology
  - development 5856
  - reproduction 1871-1872
- genetics, genetic variation 2954
- physiology
  - hormones 8119
  - reproduction 1902

**S,S,S-Tributyl phosphorothioate**, control, *Bemisia tabaci*, cotton 3615**S,S,S-Tributyl phosphorothioate**, resistance, *Cacopsylla pyri* 4252**S,S,S-Tributyl phosphorothioate**, synergism 6336, 7731, 9613**Trichagalma serrata**

- Lepidoptera, interactions 11306
- parasitoids 11306
- Quercus acutissima*
  - galls 11306
  - Honshu 11306

**Trichapion lativentre**

- pesticides, effects 6855
- Sesbania punicea*, South Africa 6855

**Trichiosoma scalesii**

- Betula*, Finland 6750
- ecology, habitats 6750

**Trichlorfon**

- control
  - Acronicta rumicis* 7635
  - Aoraia scutellaris*, grapes 9861
  - Bactrocera cucurbitae*, *Momordica charantia* 6620
  - Ceratitis* 2568
  - Keiferia lycopersicella*, tomatoes 2531
  - Lycoriella pleuroti*, fungi 12041
  - Monolepta australis* 2650
  - Pentatomidae, rice 1460
  - Tingidae, oil palms 4623
- degradation, water 4231
- determination 10356
- effects
  - Nomuraea rileyi* 4144
  - Stethopachys formosa* 12039
- interactions, *Metarhizium anisopliae* 1336
- mixtures, control, *Spodoptera exigua*, sugarbeet 8819
- residues
  - determination 494
  - environment 5685
  - man 494
- resistance
  - Chilo suppressalis* 5295

**Trichlorfon cont.**

- resistance cont.
  - Lygus hesperus* 6334
- toxicity
  - Anastrepha fraterculus* 8457
  - Apidae 9600
  - aquatic organisms 1343-1344
  - Steinernema carpocapsae* 7583

**Trichloronat**, extraction, water 502**Trichlorphon** (see Trichlorfon)**Trichoceridae**

- evolution 928
- taxonomy 11123

**Trichochermes walkeri**

- biology, life cycle 3652
- Rhamnus cathartica*
  - galls 3652
  - UK 3652

**Trichoderma**, growth regulators, degradation 4299**Trichodes**, prey, *Doclostaurus maroccanus* 6148**Trichodes alvearius**, prey, *Osmia tricornis* 5148**Trichogramma**

- biology
  - behaviour 3211-3212
  - models 4118
  - reproduction 3198, 9528
- books 5775
- control
  - Erinnyis ello*, cassava 10790
  - Lepidoptera, evaluation 9528
  - crops, fields, Andhra Pradesh 4389
  - ecology, distribution 2421
  - fields, habitats, Maharashtra 5153
  - genetics 3198
    - behaviour 4118
    - DNA 7362
    - DNA fingerprinting 11244
    - population genetics 3212
  - herbicides, effects 6202
- hosts
  - Apodemus mormo* 3198
  - Chrysoperla carnea* 5153
  - Dismorphia amphione* 7339
  - Helicoverpa armigera* 4389
  - Lepidoptera 4118, 9528
  - Neoleucinodes elegantalis* 3565
  - Ostrinia furnacalis* 2421
  - Phyllocolpa* 6761
  - Sitotroga cerealella* 10790
  - Strigina bifida* 5689
  - Zeiraphera* 3662
  - Zeiraphera canadensis* 4740
- identification 11244
- Larix*, forests, Hebei 3662
- Magnolia biloba*, habitats, Zhejiang 5689
- maize, fields, Taiwan 2421
- morphology 11453
- pathogens 3198
- Picea glauca*, plantations, New Brunswick 4740
- Puerto Rico 7339
- rearing techniques 10790, 11404
- Salix sericea*, habitats, New York 6761
- taxonomy 9066, 11418, 11453
- cytotaxonomy 7362
- Wolbachia*, interactions 3213

**Trichogramma bournieri**

- hosts, *Chilo partellus* 8646
- rearing techniques 8646

**Trichogramma brasiliense**

- control, *Helicoverpa armigera*, tomatoes 1520
- hosts, *Helicoverpa armigera* 1520

**Trichogramma brassicae**

- biology
  - behaviour 8389
  - environmental factors 2007
  - reproduction 9528
- control
  - Lepidoptera, evaluation 9528
  - Ostrinia nubilalis*, maize 9694
- genetics, restriction fragment length polymorphism 11433
- hosts
  - Lepidoptera 9528
  - Ostrinia nubilalis* 9694
  - Pyralidae 8389
- morphology 11453



- Trichogramma brassicae** *cont.*  
taxonomy 11453
- Trichogramma cacaeciae**  
biology, behaviour 7184  
hosts, Tortricidae 7184
- Trichogramma chilonis**  
biology  
behaviour 4120, 7203, 9799  
reproduction 312  
control  
*Chilo sacchariphagus indicus*, sugar-cane 3595  
*Plutella xylostella*, evaluation 9799  
*Spodoptera litura*, potatoes 1493  
hosts  
*Corcyr a cephalonica* 312  
*Plutella xylostella* 4120, 9799  
*Spodoptera litura* 7203  
potatoes, fields, Karnataka 1493
- Trichogramma deion**  
biology, reproduction 3198  
hosts, *Apodemus mormo* 3198  
pathogens 3198
- Trichogramma dendrolimi**  
biology  
behaviour 7184, 10372  
development 9432  
ecology, habitats 9969  
forests, Hunan 9969  
hops, habitats, Honshu 10380  
hosts  
*Ephestia kuehniella* 9432  
*Inachis io* 10380  
Lasiocampidae 10372  
Lepidoptera 9969  
Tortricidae 7184  
rearing techniques 9432
- Trichogramma embryophagum**  
biology, behaviour 7184  
hosts, Tortricidae 7184
- Trichogramma evanescens**  
biology 11876  
behaviour 7184  
environmental factors 6073  
reproduction 9417  
hosts  
Lepidoptera 9066, 9417  
*Lobesia botrana* 11876  
*Ostrinia nubilalis* 6464  
Tortricidae 7184  
maize, fields, Yugoslavia 6464  
Moldova 9417  
Portugal 9066  
taxonomy 9066  
vineyards, Egypt 11876
- Trichogramma evanescens group**  
morphology 11453  
taxonomy 11453
- Trichogramma galloi**  
biology, environmental factors 7247  
hosts, *Diatraea saccharalis* 7247, 8814
- Trichogramma ivelae**  
biology, behaviour 10267  
hosts, Lepidoptera 10267
- Trichogramma japonicum**  
control  
*Cnaphalocrocis medinalis*, evaluation 570  
*Scirpophaga incertulas*, rice 4441  
hosts  
*Agrotis bionica* 4635  
*Cnaphalocrocis medinalis* 570  
*Scirpophaga incertulas* 4441, 5441  
rice, fields, Indonesia 5441
- Trichogramma lopezandiniensis**  
Colombia 4850  
hosts, Lepidoptera 4850  
taxonomy, new species 4850
- Trichogramma minutum**  
biology  
diapause 8280  
nutrition 9433  
reproduction 190, 9528  
control, Lepidoptera, evaluation 9528  
genetics, restriction fragment length polymorphism 11433  
hosts  
*Choristoneura fumiferana* 4721  
*Ephestia kuehniella* 190  
*Helicoverpa zea* 10706  
Lepidoptera 1215, 7363, 8280, 9528
- Trichogramma minutum** *cont.*  
maize, fields, Chile 10706  
Pinopsida, forests, Canada 4721  
rearing techniques 1215, 7363, 8280
- Trichogramma minutum group**  
morphology 11453  
taxonomy 11453
- Trichogramma nubilale**  
attractants 2116  
biology, behaviour 10370  
control, *Ostrinia nubilalis*, evaluation 11731  
hosts, *Ostrinia nubilalis* 2116, 10370  
maize, fields, Pennsylvania 11731
- Trichogramma ostrinae**  
biology  
environmental factors 7682  
reproduction 312  
hosts  
*Corcyr a cephalonica* 312  
*Ostrinia nubilalis* 7682  
maize, fields, Jiangsu 7682
- Trichogramma perkinsi group**  
morphology 11453  
taxonomy 11453
- Trichogramma pintoi group**  
morphology 11453  
taxonomy 11453
- Trichogramma pretiosum**  
biology 4522  
life cycle 5420  
reproduction 3198  
California 6184  
control  
*Helicoverpa armigera*, tomatoes 1520  
*Helicoverpa zea*, melons 7799  
ecology 6184  
growth regulators, effects 7570  
hosts  
*Apodemus mormo* 3198  
*Ephestia kuehniella* 1337  
*Helicoverpa armigera* 1520  
Lepidoptera 5420, 6184  
Noctuidae 4416  
*Sitotroga cerealella* 4522  
insecticides, effects 1337, 7799  
maize, fields, Sao Paulo 4416  
pathogens 3198  
tomatoes, fields, Venezuela 4522
- Trichogramma pretiosum group**  
morphology 11453  
taxonomy 11453
- Trichogramma sibiricum**  
biology, reproduction 9528  
control, Lepidoptera, evaluation 9528  
genetics, restriction fragment length polymorphism 11433  
hosts, Lepidoptera 9528
- Trichogramma telengai**  
broadleaves, forests, Ukraine 1653  
ecology 1653  
hosts, *Tortrix viridana* 1653
- Trichogramma turkestanica** (see *T. evanescens*)
- Trichogramma voegelei**  
morphology 11453  
taxonomy 11453
- Trichogrammatidae**, India 11418
- Trichogrammatoidea**  
fields, Kenya 6427  
hosts, *Helicoverpa armigera* 6427  
taxonomy 11418
- Trichogrammatoidea simmondsi**  
hosts, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440
- Trichomalopsis dubius**  
*Bromus inermis*, habitats, Indiana 2475  
hosts, *Aleiodes stigmator* 2475
- Trichomasthus coeruleus**  
hosts, *Gossyparia spuria* 2671  
*Ulmus*, habitats, California 2671
- Trichoplusia ni**  
alkaloids, effects 431  
biochemistry  
chemical composition 9221  
endocrine system 4965-4967, 7094  
enzymes 6576, 8219  
polypeptides 11225  
biological control agents, evaluation 4166  
biology, behaviour 3824, 7891
- Trichoplusia ni** *cont.*  
Brussels sprouts, Prince Edward Island 4515  
cabbages, Prince Edward Island 10800  
cell lines  
genetics, genetic engineering 9236  
pathogens 4198, 11512  
Chile 9269  
*Conium maculatum*, Illinois 4783  
control 4515  
biological control 11812  
chemical control 10800  
cotton, California 10920  
ecology, life tables 1508  
genetics, complementary DNA 8219  
growth regulators, effects 8219  
insecticides  
effects 4275, 11603  
pathogenicity 357  
kale 1508  
leafy vegetables, America 11812  
monitoring 10800  
traps 9269, 10920  
parasitoids 318, 8112, 8270  
pathogens 1443, 4148, 4155, 4197, 4515, 6226, 6238, 7445, 8439  
pheromones 3824, 7891  
physiology  
nervous system 10182  
sensilla 5925-5926  
plant extracts  
antifeedants 6397, 6530  
effects 6576, 7891, 11699  
predators 3045
- Trichoplusia orichalcea** (see *Thysanoplusia orichalcea*)
- Trichopoda giacomellii**  
Argentina 3084  
hosts, *Nezara viridula* 3084
- Trichopoda pennipes**  
hosts  
Cicadellidae 11918  
*Nezara viridula* 11390  
rearing techniques 11390
- Trichopria**  
attractants 6052  
control, *Exorista bombycis*, evaluation 6271  
ecology, life tables 6271  
hosts, *Exorista bombycis* 6052
- Trichopria khandalus**  
biology, development 6028  
hosts, *Exorista bombycis* 6028, 6272
- Trichosanthes cucumerina**  
Lasiotera chichindae  
galls 637  
Sri Lanka 637
- Trichosanthes kirilowii**, *Epilachna admirabilis*, Honshu 1744
- Trichosanthes ovigera**, *Epilachna admirabilis*, Honshu 1744
- Trichosirocalus horridus**  
*Carduus thoermeri* 2764  
control, Asteraceae 2218  
ecology, population dynamics 2218  
North Carolina 2218  
plant pathogens, transmission 2764
- Trichospilus diatraeae**  
distribution, Puerto Rico 7339  
hosts, *Dismorphia amphione* 7339
- Trichostereis**, distribution, USA 8320
- Trichouropoda pilifera**  
taxonomy, new species 8070  
USA 8070
- Triclona picea**, insecticides, toxicity 9557
- Triclopyr**  
effects  
forests, insects 10933  
Gastropoda 10403
- (4E,7Z)-4,7-Tridecadienyl acetate**, pheromones, *Phthorimaea operculella* 3834
- Tridecane**, pheromones, *Formica lugubris* 973
- 2-Tridecanone**, pheromones, *Drosophila buzzatii* 2935
- (S)-2-Tridecanyl acetate**, synthesis 523
- (4E,7Z,10Z)-4,7,10-Tridecatrienyl acetate**, pheromones, *Phthorimaea operculella* 3834
- (Z)-4-Tridecenal**, mixtures, attractants, *Macrocentrus grandii* 7063



- (Z)-4-Tridecene**, pheromones, *Formica lugubris* 973
- Tridec-4-en-1-yl acetate**  
pheromones, *Keiferia lycopersicella* 11690  
synthesis 11690
- (Z)-8-Tridecenyl nitrate**, pheromones, *Bucculatrix thurberiella* 4663
- Tridiscus oetvoesi**  
*Agropyron*, British Columbia 920  
taxonomy, new species 920
- Tridiscus sporoboli**  
*Buchloe dactyloides* damage 6506  
Nebraska 6506  
distribution, Nebraska 6506
- Triflumuron**  
control  
*Cydia molesta*, pome fruits 7809  
insect pests, potatoes 6559  
*Locusta migratoria migratorioides*, savannas 5709  
*Scrobipalpus absoluta*, tomatoes 2535  
effects  
Coccinellidae 444  
environment 7625  
*Trichogramma pretiosum* 7570  
resistance, *Plutella xylostella* 11594  
toxicity  
*Alphitobius diaperinus* 10537  
*Ceraeochrysa cubana* 4324  
Coleoptera 1332  
*Locusta migratoria* 2289  
*Tenebrio molitor* 2281, 11595  
usage 7625
- Trifluoromethyl ketone**, pheromones, Noctuidae 7634
- 4-((Trifluoromethyl)sulfinyl)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- 4-((Trifluoromethyl)sulfonyl)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- 4-((Trifluoromethyl)thio)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- Trifluralin**, toxicity, *Metarhizium anisopliae* 2307
- Trifolium**  
*Coleophora*, Nearctic Region 1797  
pesticides, residues 578  
*Tychius*, North America 6526
- Trifolium alexandrinum**  
Noctuidae, Himachal Pradesh 8684  
*Thysanoplusia orichalcea*, India 1469
- Trifolium ambiguum**, *Nicaeana*, New Zealand 6521
- Trifolium incarnatum**, mycotoxins, effects 5459
- Trifolium pratense**  
*Acyrtosiphon pisum* 2900, 4467  
resistance 4461  
Sweden 586  
fields, predatory arthropods, Sweden 586  
habitats, Hymenoptera, Germany 4462  
insect pests  
control, chemical control 2482  
Germany 4462  
*Sitona hispidulus* 10337  
*Sminthurus viridis*  
New Zealand 7725  
resistance 7725
- Trifolium repens**  
*Bradysia*, damage 8670  
*Costelytra zealandica*, New Zealand 1468  
Gastropoda, UK 11009  
intercropping, cabbages, effects, insect pests 7771  
*Listronotus bonariensis*, New Zealand 6502  
*Nicaeana*, New Zealand 6521
- Trifolium repens** cont.  
*Nicaeana cinerea* damage 6524  
New Zealand 6524  
pest control 391  
*Sitona hispidulus* 10337  
nitrogen transfer 4392  
*Sitona lepidus*, resistance 4481  
*Sminthurus viridis*  
New Zealand 7725  
resistance 7725  
*Spodoptera litura*, Japan 391  
*Tetranychus urticae*, North Carolina 5394
- Trifolium resupinatum**, *Thysanoplusia orichalcea*, India 1469
- Trifolium subterraneum**  
*Halotydeus destructor* 3487  
varietal reactions 11763  
Western Australia 11763  
intercropping, cabbages, effects, insect pests 7771
- Trigonaloidea**, taxonomy 1803
- Trigonella foenum-graecum**  
extracts, toxicity, *Amblyseius barkeri* 7984  
pest control 3678
- Trigonotylus ruficornis**, soyabeans, Yugoslavia 6536
- Trilophidia annulata**, genetics, chromosomes 9233
- Trilophus interpunctatus**, distribution, South Asia 3122
- Trimedlure**, attractants, *Ceratitis capitata* 4367, 7632
- Trimerotropis pallidipennis**  
Argentina 3897  
genetics, genetic variation 3897  
predators 9314
- O,O,S-Trimethyl phosphorothioate**, effects, rats 11629
- (8E,10E)-3,7,9-Trimethyl-8,10-dodecadien-6-one**, pheromones, *Matsucoccus feytaudi* 5673
- (2E,4E,6R,10S)-4,6,10-Trimethyl-2,4-dodecadien-7-one**  
pheromones, *Matsucoccus feytaudi* 1395  
synthesis 1395
- (2E,4E,6E,8E)-3,5,7-Trimethyl-2,4,6,8-undecatetraene**  
attractants, *Carpophilus* 7060  
pheromones, *Carpophilus davidsoni* 7060
- Trinervitermes**, South Asia 11460
- Trinidad and Tobago**  
*Citrus*  
*Ecdytolopha aurantianum* 6683  
*Toxoptera citricidus* 4591  
*Sternochetus mangiferae* 11386
- Triodecane**, secretions, *Lincus* 4885
- Trionymus**  
*Buchloe dactyloides* damage 6506  
Nebraska 6506  
distribution, Nebraska 6506
- Trioxabicyclooctanes**  
chemistry 10343  
toxicity, insect pests 10343
- Trioxys**, taxonomy 5398
- Trioxys angelicae**  
biology, behaviour, models 2104  
hosts  
Aphididae 2104  
*Aphis* 5398  
taxonomy, synonyms, of *Trioxys aculephae* 5398
- Trioxys complanatus**, hosts, *Therioaphis* 5398
- Trioxys curvicaudus**, hosts, *Eucallipterus tiliae* 8887
- Trioxys moshei**  
hosts, *Hoplocallis pictus* 5398  
taxonomy, new species 5398
- Trioxys pallidus**  
genetics  
DNA, analysis 9381  
DNA amplification 9381  
hosts, *Monellia caryella* 5398
- Trioxa**  
morphology 9061  
parasitoids 9071  
taxonomy 10094
- Trioxa erytrae**  
*Citrus*, South Africa 2579  
predators 2579
- Trioxa remota**  
distribution, Turkey 1148  
*Quercus infectoria*, Turkey 1148
- Trioxa ternstroemiae**  
morphology 9061  
taxonomy, new species 9061  
*Ternstroemia gymnanthera*, Japan 9061
- Trioxa trisignata**  
blackberries, Turkey 1148  
distribution, Turkey 1148
- Trioxa yelagiriensis**  
*Ficus benghalensis*, Tamil Nadu 10094  
taxonomy, new species 10094
- Triozidae**, Nicaragua 10295
- Triphenyl phosphate**, synergism 9613, 11575
- Tripleba lugubris**, Washington 3939
- Tripleurospermum inodorum** (see *Matricaria perforata*)
- Tripleurospermum maritimum** (see *Matricaria perforata*)
- Tripolitanus kruger**, lucerne, fields, Libya 3486
- Tripsacum dactyloides**  
burning, effects, insects 11761  
*Dalbulus*, Mexico 10746  
*Dalbulus quinquenotatus*, Mexico 11761
- Tripsacum dactyloides** × *Zea diploperennis*, *Diabrotica virgifera*, resistance 2408
- Tripsacum pilosum**  
Cicadellidae, Mexico 4036  
habitats, Hymenoptera, Mexico 4036
- Trirhabda canadensis**  
ecology 4770, 6843  
*Solidago missouriensis* 6843  
Minnesota 4770
- Trirhabda geminata**  
acids, effects 11336  
biology 10023  
*Encelia farinosa* 10023, 11336
- Trirhabda nitidicollis**  
*Chrysomellus*, Colorado 4465  
control, chemical control 4465  
ecology, population dynamics 4465  
predators 4465
- Trissolcus basalis**  
biology  
behaviour 7156  
reproduction 7226  
hosts  
*Nezara viridula* 4107, 7226, 7304  
pentatomidae 7156  
morphology 65  
parasitoids 65  
rearing techniques 7304
- Trissolcus grandis**, hosts, *Eurygaster integriceps* 325
- Trissolcus oenone**  
control, *Biprorulus bibax*, lemons 664  
hosts, *Biprorulus bibax* 664
- Trissolcus simoni**, control, *Eurydema ornata*, evaluation 386
- Triticale** (*Triticum* × *Secale*)  
arthropod pests 1433  
insect pests  
damage 4398  
Georgia 4398, 9670  
*Schizaphis graminum*, resistance 3443  
Thysanoptera, North Carolina 9279
- Triticum aestivum** (see Wheat)
- Triticum dicoccum**, *Metopolophium dirhodum* 540
- Triticum durum** (see Wheat)
- Triticum monococcum**, *Sitobion avenae*, resistance 8636, 11719
- Triticum** × *Secale* (see Triticale)
- Tritoma**, fungi 3033
- Trochoidea geyeri**, taxonomy 11471
- Trochorhopalus sacchari**  
biology, behaviour 2607  
sugarcane, India 2607
- Trogoderma**  
barley, commodities, Montana 5741  
predators 5741  
taxonomy 6973
- Trogoderma glabrum**, taxonomy 6973
- Trogoderma granarium**  
cereal grains, damage 10032, 10056



**Trogoderma granarium** *cont.*  
control  
carbon dioxide 6869  
integrated control 9007  
insecticides  
effects 6331  
metabolism 1322  
toxicity 833  
pheromones 1396  
plant oils, toxicity 6313  
taxonomy 6973  
wheat  
commodities  
Indian Punjab 6868  
Pakistan 9007

**Trogoderma halsteadii**  
*Bombyx mori*, cocoons, Uttar Pradesh 4791  
taxonomy, new species 4791

**Trogoderma inclusum**  
monitoring, traps 6290  
pheromones 6290  
Spain 6290  
taxonomy 6973

**Trogoderma variable**, taxonomy 6973

**Troxoxylon impressum**  
biology 12071  
tropical timbers 12071  
vineyards, Switzerland 12071

**Troides rhadamanthus plateni**, physiology, senses 4956

**Tropaeolum majus**, *Pieris rapae* 10012

**Tropical crops**  
commodities, insect pests, control 2395  
Malaysia, reports 856  
pest control 856

**Tropical forests**  
*Anelosimus eximius*, French Guiana 5151  
books 887  
Formicidae, Costa Rica 289  
insects 887  
Africa 5624

**Tropical fruits**  
arthropod pests 6909  
*Bactrocera* 6945  
*Bactrocera carambolae* 9897  
*Bactrocera kandiensis*, Sri Lanka 9894  
*Bactrocera occipitalis*, South East Asia 9893  
*Bactrocera papayae* 9351  
*Bactrocera philippinensis*, Philippines 9892  
*Bactrocera pyrifoliae*, Thailand 9898  
commodities  
*Anastrepha suspensa* 1775  
insect pests, control 4799  
*Monolepta australis*, Northern Territory 2650  
pest control 2577, 6675

**Tropical rain forests**  
Formicidae, Ghana 11960  
insects, Panama 2649

**Tropical timbers**, *Troxoxylon impressum* 12071

**Tropics**  
environment, pesticides, nontarget effects 11670  
insects 3129  
pesticides, nontarget effects 11669  
plant protection 11537  
rice, pest management 11749

**Tropilaelaps clareae**  
Asia 8360, 11430  
biology  
behaviour 4089  
life history 11443  
control 11430  
chemical control 10388  
Himachal Pradesh 1202  
hosts  
*Apis* 11430, 11443  
*Apis mellifera* 1202, 4089, 8360, 10388

**Tropobracon**, taxonomy 6984

**Tropobracon comorensis**  
hosts, *Chilo partellus* 6984  
taxonomy, new species 6984

**Tropobracon infuscatus**, taxonomy, new species 6984

**Tropobracon luteus**, taxonomy, synonyms 6984

**Tropobracon luteus** *var. indica*, taxonomy, synonyms, of *Tropobracon luteus* 6984

**Trupanea patagonica**  
ecology, population dynamics 5716  
*Gutierrezia*, Argentina 5716

**Truxalis**, predators 274

**Truxalis nasuta**, Algeria 9362

**Trybliographa**  
control, insect pests, rice 9724  
geographical distribution, Korea Republic 301  
hosts, *Delia antiqua* 301  
Korea Republic 301  
rice, fields, Colombia 9724

**Trybliographa rapae**  
hosts, *Delia antiqua* 301  
Korea Republic 301

**Trychosia cyperia**  
biology, reproduction 4115  
hosts, *Misumena vatia* 4115  
Maine 4115

**Trypanosomatidae**, hosts, insects 7388

**Trypetisoma**, taxonomy 3733

**Tryphonini**  
Korea Republic 10085  
taxonomy 10085

**Trypodendron lineatum**  
biology, behaviour 7962, 8994  
control, trapping 6778  
Pinopsida, British Columbia 6778  
*Pseudotsuga menziesii*  
Oregon 7962, 8994  
wood 8994

**Tryporyza** (see *Scirpophaga*)

**Tryporyza incertulas** (see *Scirpophaga incertulas*)

**Trypoxylon politum**  
biology, population dynamics 8386  
parasitoids 8386

**Trypoxylon rogenhoferi**  
biology 9264  
parasitoids 9264  
prey, Araneidae 9264  
Sao Paulo 9264

**Trypoxylon triidentatum**  
Mexico 5149  
prey, Araneae 5149

**Tryptophan**, protectants, *Baculovirus* 11478

**D-Tryptophan**, effects, *Bactrocera cucurbitae* 7029

**Tsuga**  
forests, parasitoids, Connecticut 2708  
*Lambdina fervidaria athasaria*, Connecticut 2708  
pests  
Canada, books 891  
control 891  
damage 891

**Tsuga canadensis**  
*Adelges tsugae*, Connecticut 12018  
forests, *Scymnus suturalis*, Connecticut 12018

**Tsuga heterophylla**, Scolytidae, British Columbia 6778

**Tubanaea quadridentata**, hosts, *Gryllobes sigillatus* 2202

**Tuberaphis leeuweni**  
biology, life cycle 10111  
*Styrax serrulata*  
galls 10111  
Indonesia 10111  
taxonomy 10111

**Tuberaphis takenouchii**  
biology, behaviour 4832  
Loranthaceae  
galls 4832  
South East Asia 4832  
taxonomy, from *Astegopteryx* 4832

**Tuberculatus nervatus**, predators 3008

**Tullbergiinae**  
Europe 8062  
taxonomy 8062

**Tunisia**  
*Cataglyphis* 8051  
cereals, *Mayeriella destructor* 9667  
dates, *Parlatoria blanchardii* 9900  
olives, *Euphyllura olivina* 6711  
pesticides, usage 6555  
potatoes  
integrated pest management 6555  
*Phthorimaea operculella* 6555

**Tunisia** *cont.*  
*Schistocerca gregaria* 1187

**Turbopsebius sulphuripes**  
biology, development 5154  
distribution, North America 5154  
hosts, *Coras montanus* 5154

**Turcopus**, taxonomy, new genus 4853

**Turcopus viscivorus**  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853

**Turdus migratorius**, pesticides, residues 5332

**Turdus rufiventris**, Curculionidae, interactions 11291

**Turf** (see Lawns and turf)

**Turkey**  
*Acer negundo*, *Eulecanium transvittatum* 6775  
apples, orchards, *Amblyseius* 1537  
*Astragalus*, *Anthaxia adiyamana* 1828  
*Bacillus atticus* 5010  
biological control 1277  
carobs, *Apomyelois ceratoniae* 1580  
*Citrus*  
Cicadellidae 1566  
*Dialeurodes citri* 3561  
orchards, *Eretmocerus debachi* 11895  
*Parabemisia myricae* 11895  
Coccinellidae 1149  
Coleoptera 6942  
cowpeas, *Callosobruchus maculatus* 1486  
*Eurytoma* 901  
food plants, *Phthorimaea operculella* 11710  
grain legumes, Agromyzidae 1470  
Ichneumonidae 11374  
insect pests 7205  
*Juniperus*, *Anthaxia turcica* 1828  
lentils, fields, insects 1482  
lucerne, *Hypera postica* 7723  
mites, reviews 2082  
oranges, Cicadellidae 10880  
pesticides, usage 1317  
*Pinus*, *Matsuccoccus josephi*, predators 2697  
Psylloidea 1148  
sesame, *Circulifer haematocephalus* 10902  
soil bacteria, insecticides, degradation 10656  
tomatoes, *Macrosiphum euphorbiae* 1519  
wheat, *Rhipidothrips flavus* 1147  
Zercon 4859

**Turkmenistan**  
Araneae 10294  
arthropods, books 11073  
Cecidomyiidae 5094  
*Chorthippus* 5123  
Coleoptera 10293  
integrated pest management 6915

**Turks and Caicos Islands**, Lygaeidae 6099

**Turktichus**, taxonomy, synonyms, *Aprostocetus* 8093

**Turmeric** (*Curcuma longa*)  
extracts, effects, *Callosobruchus maculatus* 9003  
pest control 3678

**Turnaca acuta**  
coconuts  
outbreaks 11928  
Tamil Nadu 11928  
natural enemies 11928

**Turnip rape** (*Brassica campestris* *var. oleifera*)  
Coleoptera, Finland 3578

**Turnips** (*Brassica campestris* *var. rapa*)  
extracts, toxicity, *Amblyseius barkeri* 7984  
*Phyllotreta striolata*, Honshu 6564  
*Plutella xylostella*, Pakistan 6586

**Turraea nilotica**, extracts, antifeedants, *Lep-tinotarsa decemlineata* 10680

**Tursiops truncatus**, insecticides, effects 3379

**Turtles**  
insecticides, residues 3372  
pesticides, effects 9598

**Tychiinae**  
biology, seasonal abundance 4571  
raspberries, Quebec 4571

**Tychius flavus**  
biology, environmental factors 4458



- Tychius flavus* cont.  
lucerne  
damage 4458  
Hungary 4458
- Tychius meliloti*  
distribution, Canada 6526  
Melilotus, Canada 6526
- Tychius picirostris*, *Trifolium*, North America 6526
- Tychius stephensi*, *Trifolium*, North America 6526
- Tydeidae**  
coffee, habitats, Queensland 5596  
ecology, habitats 3418  
woody plants, Korea Republic 3418
- Tydeus*, taxonomy 8057
- Tydeus caputoperio*  
grasses, Sweden 8057  
taxonomy, new species 8057
- Tydeus danielssoni*  
*Pinus*, Sweden 8057  
taxonomy, new species 8057
- Tydeus exiguelitteratus*  
forest trees, Sweden 8057  
taxonomy, new species 8057
- Tydeus nytebodensis*  
*Picea abies*, Sweden 8057  
taxonomy, new species 8057
- Tydeus parainflat*  
forest trees, Sweden 8057  
taxonomy, new species 8057
- Tylenchorhynchus vulgaris*, insecticides, effects 9749
- Tynacantha marginata*  
*Eucalyptus*, forests, Brazil 1661  
prey, Lepidoptera 1661
- Typha latifolia*, pollen, *Euseius mesembrinus* 3220
- Typhaceae**, *Phthorimaea operculella* 4487
- Typhaea stercorea*  
cereal grains, South Carolina 4809  
ecology, population dynamics 6871  
monitoring 4808  
predators 5741  
wheat, commodities, Kansas 4808, 6871
- Typhaea stercorea*, barley, commodities, Montana 5741
- Typhlocyba pomaria*  
apples  
New York 4557  
Washington 8757  
*Edwardsiana rosae*, interactions 4557
- Typhlodromalus*  
*Citrus*, orchards, Southern Africa 1567  
prey, *Sciotrips aurantii* 1567
- Typhlodromalus limonicus* (see *Amblyseius limonicus*)
- Typhlodromina camelliae*, *Citrus*, orchards, Sao Paulo 8786
- Typhlodromus**  
Japan 3106  
taxonomy 1559  
vineyards, Hungary 1559
- Typhlodromus athiasae*, plant extracts, toxicity 6305
- Typhlodromus australicus*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus calabriae*  
Greece 4858  
taxonomy 4858
- Typhlodromus carmonae*  
Greece 4858  
taxonomy 4858
- Typhlodromus commenticius*  
Greece 4858  
taxonomy 4858
- Typhlodromus doreanae*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus dossei*  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus exhilaratus*  
biology, reproduction 5173  
prey, *Tetranychus urticae* 5173
- Typhlodromus heveae*, taxonomy 8056
- Typhlodromus kykladiticus*  
*Spartium junceum*, Greece 4858  
taxonomy, new species 4858
- Typhlodromus occidentalis* (see *Metaseiulus occidentalis*)
- Typhlodromus olympicus*  
*Buxus sempervirens*, Greece 4858  
taxonomy, new species 4858
- Typhlodromus peribibus*  
taxonomy 1559  
vineyards, Hungary 1559
- Typhlodromus phialatus*  
biology, behaviour 2131  
orchards, Spain 2131  
prey, *Panonychus citri* 2131
- Typhlodromus pruni*, taxonomy, synonyms, of *Seiulus finlandicus* 8056
- Typhlodromus pyri*  
acaricides, effects 7837  
*Amblyseius andersoni*, biological competition 5524  
apples  
orchards  
Germany 5524, 6642  
New Zealand 6632  
Nova Scotia 2558, 9839, 10850  
Oregon 4554  
Poland 5519  
biology  
behaviour 2558, 4124, 6667  
interspecific competition 4554  
intraspecific competition 9438  
control  
Acari, apples 4553, 9839  
*Panonychus ulmi*, apples 10850  
*Tetranychus mcDanieli*, grapes 1558  
*Tetranychus urticae*, hops 12049  
distribution, Slovakia 7279  
ecology  
population density 6642  
population dynamics 6667, 10850  
fertilizers, effects 10850  
fungicides, effects 8774  
grapes, habitats, Germany 6667  
hops, fields, Oregon 12049  
insecticides, effects 5519  
pesticides, effects 9839  
pome fruits, orchards, Belgium 1534  
predators 6667  
prey  
Acari 5524  
arthropod pests 4124  
*Panonychus ulmi* 2558  
Tetranychidae 6642  
*Tetranychus urticae* 9438  
taxonomy 1559  
vineyards  
France 1558  
habitats 4124  
Hungary 1559, 7837
- Typhlodromus rodopiensis**  
*Quercus*, Greece 5643  
taxonomy, new species 5643
- Typhlodromus simplex**  
Greece 4858  
taxonomy 4858
- Typhlodromus wonkooi*  
Korea Republic 2036  
taxonomy, new species 2036
- Tyria jacobaeae**  
control, *Senecio jacobaeae* 3691  
ecology, interspecific competition, models 11014  
pheromones 4941  
pyrrolizidine alkaloids, metabolism 4928  
*Senecio jacobaeae*  
Oregon 3691  
UK 11014
- Tyrophagus longior**  
hive products, India 4790  
garlic, commodities 10040-10041  
soyabean flour, Italy 6879
- Tyrophagus putrescentiae**  
biology  
behaviour 852  
environmental factors 1066  
commodities 852  
predators 6613  
stored products, Italy 6879  
UC 51672, control, *Amsactia moorei*, guar 9772
- Udea ferrugalis**  
maize, Italy 5419  
monitoring, traps 5419
- Uganda**  
chickpeas, *Helicoverpa armigera* 6545  
Diptera 10303  
Nymphalidae 1137, 4034  
*Selenaspis articulatus*, parasitoids 7283
- UK**  
*Abies grandis*  
*Epinotia fraternana* 2842  
forests, *Bassus epinotiae* 2842  
*Acer campestre*, insect pests 11999  
*Acer pseudoplatanus*, *Drepanosiphum platanoides* 5652  
*Achillea ptarmica*, *Macrosiphoniella millefolii* 8006  
Aculeata 3120, 11350  
Aphididae 1062, 1394, 5109  
*Aphis fabae*, predators 8256  
*Apis mellifera*  
ectoparasites 11426  
pesticides, poisoning 5315  
apples  
*Eriosoma lanigerum* 8752  
*Pieris brassicae* 4547  
Araneidae 199  
arthropods 9283  
introduced species 2023  
barley  
fields  
*Carabidae* 6035, 6452, 7673  
Linyphiidae 10701  
beetroots, *Agrotis segetum* 6457  
*Bemisia tabaci* 4220  
beneficial arthropods 7245  
beneficial insects 4308  
biological control, reports 1784  
Brassica  
*Delia radicum*, predators 5493  
*Plutella xylostella* 7778  
broadleaves, arthropods 11348  
Brussels sprouts  
*Brevicoryne brassicae*, predators 4404  
*Pieris brassicae* 4509  
*Plutella xylostella* 5491  
*Calathus cinctus* 2837  
*Callimorpha dominula*, parasitoids 4095  
canes and rattans, *Micrapate xyloperthoides* 3115  
*Carabidae* 7244  
*Cerceris arenaria* 9293, 11325  
cereals  
Aphididae 2405, 5400, 10687  
natural enemies 3427  
*Delia coarctata* 534  
fields  
Araneae 1422  
Heteroptera 7241  
*Ceutorhynchus assimilis* 522  
Chrysomelidae, books 12101  
*Cicindela germanica* 3074  
*Cirsium vulgare*, *Eucosma cana* 6859  
*Citrus*, *Aleurothrixus floccosus* 11901  
*Coccinella septempunctata* 9335  
Coccinellidae 3227  
*Cochylis molliculana* 4039  
*Colias crocea* 7272  
crops, insect pests 2792  
*Cryptolestes ferrugineus* 5753  
*Cytisus praecox*, *Aceria genistae* 1713  
*Delia radicum* 7503  
Diptera 10298  
*Drasophila hydei*, parasitoids 335  
ecology, reports 3715  
*Enoplognatha ovata* 202  
Epermeniidae 8318  
*Epilobium hirsutum*, *Mompha divisella* 6027  
faba beans  
*Aphis fabae* 4474  
*Sitona lineatus* 4473  
*Fagus*, *Xyleborinus saxeseni* 3103  
*Fallopia convolvulus*, *Gastrophysa polygoni* 10696  
farming systems 7645  
field crops  
Coleoptera 7566  
*Deroceras reticulatum* 10807  
fields  
*Cryptostigmata* 3069



## UK cont.

- fields cont.  
 Elateridae 3309  
 Linyphiidae 7336  
 foods, *Liposcelis bostrychophilus* 8020  
 forest trees  
 Acari 11347, 11979  
*Alnetoidia alneti* 2688  
 forests, pests 889  
*Fraxinus excelsior*, *Prays fraxinella* 2670, 9975  
 fruit vegetables  
*Frankliniella occidentalis* 625  
 greenhouses, *Orius laevigatus* 625  
 fruits, insect pests 10840  
 galls 11283  
 insects 6947  
 Gastropoda, introduced species 2023  
 Gelechiidae 8303  
 genetic variation, conferences 10065  
 grasses  
 Eurytomidae 3743  
 habitats, predatory arthropods 9380  
 grasslands  
*Auchenorrhyncha* 3029  
 Carabidae 5453  
 Diptera, parasitoids 3935  
 Gastropoda 8669, 11009  
 Isopoda 1089  
 habitats, Carabidae 5074  
 hedges  
 Syrphidae 7185  
*Yponomeuta padellus*, natural enemies 6748  
*Helix aspersa* 4134  
 horse manure, *Hypoanera punctatissima* 3079  
 insecticides  
 legislation 2242  
 reports 862  
 insects 8392  
*Inula crithmoides*, *Myopites longirostris* 7273  
 Isopoda 1794  
*Janetiella lemeei* 3123  
*Karnyothrips melaleucus* 2852  
 Laboulbeniales 1251  
 Lampyridae, books 6926  
 lawns and turf  
 insect pests 10988-10989  
*Stenobothris stigmaticus* 3669  
 Lepidoptera 2876, 6081, 10320, 11382, 11384  
 books 8046  
*Ligularia dentata*, *Lasius niger* 7181  
*Lolium perenne* 6505  
*Lutra lutra*, pesticide residues 5324  
*Lymnaea peregra* 4132  
 maize, fields, Syrphidae 7676  
*Mamestra brassicae*, pathogens 6241  
 man, pesticides, poisoning 10570  
*Maniola jurtina* 7243  
 marine structures, *Pselactus spadix* 12081  
*Meligethes* 3104  
*Mentha aquatica*, Chrysomelidae 7994  
*Metopia* 11130  
*Operophtera brumata*, predators 11980  
 Opiliones 1793  
 ornamental plants  
*Bradysia* 793  
 greenhouses, *Stratiolaelaps miles* 793  
 Orthoptera 10321  
*Pararge aegeria* 9333  
*Pardasena virgulana* 3102  
 pasture plants, herbivores 5451  
 peas, arthropods 6080  
 peatlands, Carabidae 8289  
 pesticides  
 directories 6932  
 environmental impact 2370  
 legislation 2250, 8485  
 usage 6294  
 Phyllonorycter, parasitoids 9422  
*Picea*, *Dendroctonus micans* 770  
*Picea abies*, Aphididae 8922  
*Picea sitchensis*  
*Elatobium abietinum* 2710, 6794  
*Hylobius abietis* 1700  
*Pieris brassicae* 11618  
*Pinus*, *Pityophthorus lichtensteini* 3657

## UK cont.

- Pinus contorta*, *Zeiraphera diniana* 7950  
*Pinus sylvestris*, arthropods 2696  
 plant protection 11536  
 plants, arthropods 2397  
*Platanus*, *Phyllonorycter platani* 8946  
 plums, *Phorodon humuli* 6657  
*Polyommatus icarus* 11158  
 potatoes, fields, Carabidae 11791  
*Prunus padus*, *Yponomeuta evonymellus* 12003  
*Pyracantha*, *Phyllonorycter leucographella* 8946, 12029  
*Quercus*  
 Coleoptera 729, 774  
 Cynipidae 10937  
 Cynipinae 7918  
 raspberries, *Amphorophora idaei* 7827  
*Rhamnus cathartica*, *Trichochermes walkeri* 3652  
 Rhopalocera 6092, 6101, 7238, 10282, 10492, 11351  
*Rhopalosiphum padi* 5036  
*Rubus*, *Camtharis obscura* 4569  
*Rumex crispus*, *Gastrophysa viridula* 4784  
*Salix*, *Pontania* 7924  
 salt marshes, pesticide residues 4344  
*Sansevieria*, *Suocerathrips linguis* 2852  
 sarson, pests 5571  
 Scolytidae, quarantine 2248  
*Senecio jacobaea*, natural enemies 11014  
*Serratula tinctoria*, Tephritidae 8985  
 sewage sludge, pesticide residues 6381  
*Silpha obscura* 8288  
 soil, pesticide residues 512  
 soil arthropods 9572  
*Sonchus asper*, *Aulacidea follioti* 3124  
*Stephanitis rhododendri* 9353  
 stored products pests 5744  
*Taxus baccata*  
 habitats, parasitoids 1134  
*Taxomyia taxi*, parasitoids 1134  
*Thrypticus smaragdinus* 7290  
*Thymus praecox*, *Chrysolina cerealis* 8287  
*Tilia europaea*, Eriophyidae 7930  
*Torymus* 1826  
*Ulmus*, *Scolytus* 8883  
*Vespa crabro* 3039  
 water, insecticide residues 509, 6392  
 weeds, habitats, Syrphidae 832  
 wheat  
 Aphididae 7656  
 predators 543  
 commodities, arthropod pests, predators 4802  
 fields  
 arthropods 5410, 10691  
 beneficial arthropods 4409  
 beneficial insects 7496  
*Centromerus minutissimus* 5  
*Coccinella septempunctata* 10697  
*Gastrophysa polygoni* 10696  
 insect pests 4409  
*Opomyza florum* 7652  
*Sitobion avenae* 7672, 10697  
 predators 4408  
*Sitodiplosis mosellana* 2411  
 slugs 546, 4405  
 wild plants, invertebrates 7659  
 woodlands  
 Coleoptera 3632  
 Cryptostigmata 3069  
*Ladoga camilla* 8288  
 Neuroptera 3633
- Ukraine**  
 apples, Tortricidae 2559  
 broadleaves  
 forests, *Trichogramma telengai* 1653  
*Tortrix viridana* 1653  
*Chorthippus* 5123  
 crops, pest control 6420  
 grapes, *Tetranychus urticae* 6670  
 integrated pest management 6915  
 peaches, arthropod pests 11864  
*Pinus*, *Rhyacionia buoliana* 6791-6792  
 potatoes, insect pests 6559, 9774  
 wheat  
*Eurygaster integriceps* 537  
 insect pests 11724

*Ulex europaeus*

- Agonopterix ulicetella* 11013  
 biological control agents, evaluation 11013  
*Deinacrida*, New Zealand 1076  
*Tetranychus linearius* 6847  
**Ulmaceae**, Cerambycidae 3530  
**Ulmus**  
*Idiocerus ulmus*, Heilongjiang 10098  
*Panonychus thelytokus*, Hokkaido 5838  
*Pyrrhalta luteola*, Victoria 4707-4708, 4710, 8881  
**Ulmus americana**  
*Oncideres cingulata*  
 damage 11983  
 Missouri 11983  
**Ulmus davidiana**  
 Aphididae  
 galls 4712  
 Hokkaido 4712  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus davidiana var. japonica**  
*Kaltenbachella japonica*  
 galls 6763  
 Hokkaido 6763  
**Ulmus davidiana wilsoniana** × *Ulmus pumila*  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus glabra**  
 Lepidoptera, Finland 2657  
*Polygona c-album* 530, 4387  
*Pyrrhalta luteola*, Victoria 4709  
*Scolytus*, UK 8883  
*Scolytus laevis*, Norway 747  
**Ulmus laevis**  
 Coleoptera  
 Italy 8937  
 resistance 8937  
 Lepidoptera, Finland 2657  
**Ulmus macrocarpa**  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus minor**  
 Coleoptera, Uzbekistan 746  
*Scolytus*, UK 8883  
**Ulmus procera**  
 habitats, Hymenoptera, California 2671  
 insect pests, California 2671  
 parasitoids, California 4711  
*Pulvinaria regalis* 5634  
*Pyrrhalta luteola*  
 California 745, 4711  
 Victoria 4709  
*Scolytus*, UK 8883  
**Ulmus pumila**  
 habitats, Hymenoptera, California 2671  
 insect pests, California 2671  
 parasitoids, California 4711  
*Pyrrhalta luteola*  
 California 745, 4711  
 Illinois 9976  
 Nebraska 6764  
 resistance 9976  
**Ulmus pumila** × *Ulmus americana*  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus pumila** × *Ulmus parvifolia*  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus szechuanica**  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Ulmus wilsoniana**  
*Pyrrhalta luteola*  
 Illinois 9976  
 resistance 9976  
**Uloboridae**, morphology, silk 4891  
*Uloborus glomosus*, morphology, silk 4891  
*Ulocladium atrum*, vectors, *Frankliniella occidentalis* 3579  
**Ulmoides dermestoides**  
 prey, *Acanthognathus rudis* 6055  
 radiation, effects 8239



**Ulotingis nitor**

- Acca sellowiana*  
damage 4603
- Santa Catarina 4603

**Ultracoelostoma, Nothofagus, New Zealand****Ultraviolet radiation**

- effects
- Bacillus thuringiensis* 2192
- Beauveria bassiana* 3263
- Bemisia tabaci* 10821
- pathogens, assessment 9479

**Umbelliferae, Papilio polyxenes****Ummeliata insecticeps**

- ecology
- habitats 3452
- population dynamics 11750
- pesticides, effects 6169
- prey, insects 11750
- rice
- fields
- China 3452, 11750
- Hunan 6169

**Unaspis citri**

- Citrus*
- Florida 7847
- Queensland 4588
- control, biological control 7847
- parasitoids 6969

**Unaspis euonymi**

- Euonymus japonicus*, Virginia 10001
- natural enemies 10001

**Unaspis yanonensis**

- Citrus*, quarantine 11902
- oranges, Guizhou 7851
- predators 7851, 10374

**Undecane**

- pheromones, *Formica lugubris* 973
- secretions, *Lincus* 4885

**n-Undecane, secretions, Lincus****Undecene, secretions, Lincus****Uniconazole, effects, Spodoptera eridania****United Arab Emirates, Isopoda****Unkanodes sapporonus**

- control, chemical control 3466
- rice, Zhejiang 3466

**Unnata, Oriental Region****Upper Volta (see Burkina Faso)****Uranilidae, morphology, sense organs****Urban areas, Carabidae, Germany****Urban soils, arthropods, Japan****Urentius hystericellus**

- biology 5386
- control 5386
- crops, Middle East 5386

**Urera baccifera, Lamponius portoricensis,****Urine, insecticides, residues****Uroleucon**

- morphology 4888
- predators 7016

**Uroleucon ambrosiae**

- ecology, population dynamics 8972
- Iva frutescens*, Rhode Island 8972
- melons, Mexico 3532
- monitoring, traps 5463
- Phaseolus vulgaris*, Venezuela 5463
- plant pathogens, transmission 3532
- predators 8972

**Uroleucon carthami**

- control, chemical control 3580
- safflower, Maharashtra 3580

**Uroleucon compositae**

- control, chemical control 12047
- insecticides, toxicity 11584
- safflower, Maharashtra 12047

**Uroleucon jaceae**

- biology, life history 7176
- Centaurea jacea* 7176, 12060
- parasitoids 12060

**Uroleucon nigrituberculatum**

- ecology, distribution 6067
- Solidago altissima*, North Carolina 6067

**Uroleucon pseudambrosiae**

- lettuces, secretions, effects 9807
- plant pathogens, transmission 4537
- watermelons, Florida 4537

**Uroleucon sonchi**

- control, chemical control 11925
- safflower, Maharashtra 11925

**Uroleucon tissoti**

- ecology, distribution 6067
- Solidago altissima*, North Carolina 6067

**Uromenus, taxonomy**

- Uromyces rumicis*, *Gastrophysa viridula*, interactions 4784, 11012

**Uroobovella variseta**

- taxonomy, new species 8070
- USA 8070

**Urophora affinis**

- biology 1074
- diets 1074

**Urophora cardui, Cardueae, Germany****Urophora jaculata**

- Centaurea solstitialis*
- Italy 5729
- resistance 5729

**Urophora quadrifasciata**

- biology 1074
- Centaurea solstitialis*
- Italy 5729
- resistance 5729
- diets 1074

**Urophora sirunaseva**

- Centaurea solstitialis*, USA 2750
- control, *Centaurea solstitialis* 2750

**Urophora solstitialis**

- Carduus nutans*, New South Wales 831
- control, *Carduus nutans* 831

**Urophora spoliata**

- Serratula tinctoria*
- galls 8985
- UK 8985

**Urophorus humeralis**

- apricots, New South Wales 1546
- biology, phenology 7822
- dates, California 6674
- ecology, population dynamics 7822
- food plants, Italy 11845
- monitoring, traps 7822, 11845
- pheromones 1546, 6674
- stone fruits, New South Wales 7822

**Uropoda liffreana**

- France 8071
- taxonomy, new species 8071

**Uropodina, Pinus, forests, Poland****Urostylidae, morphology, mouthparts****Ursus maritimus, organochlorine com-****Urtica dioica**

- Dasineura urticae*
- galls 1759
- Germany 1759
- extracts
- effects, *Brevicoryne brassicae* 816
- toxicity, *Nilaparvata lugens* 8478
- Polygonia c-album* 530, 4387

**Urtica morifolia, Vanessa indica, Europe****Uruguay**

- Araneae 8321
- Neopachytichius squamosus* 5822
- Solanum elaeagnifolium*
- Metriona elatior* 8002
- natural enemies 4782

**USA**

- Acari 8070
- Acmaeodera* 9055
- Acyrtosiphon pisum* 174
- agriculture, reports 9024
- Allonemobius* 6002
- Anticarsia gemmatilis* 5245
- Aphidoidea, predators 6164
- Apis mellifera*, natural enemies 8399
- Aristolochia macrophylla*, *Battus philenor* 10010
- Asteraceae, *Dichomeris* 12063
- Baccharis*, *Stobaera pallida* 827
- barley, *Mayetiola destructor* 9690
- Basilarchia archippus* 11231
- biological control agents 11542
- legislation 5275
- broadleaves, *Symmerista* 1151
- Centaurea solstitialis*, natural enemies 11025
- cereal grains, insect pests 2772
- Chionaspis*, natural enemies 1220
- Cirsium arvense*, *Terellia ruficauda* 5728
- Coccinellidae 204, 4041
- coffee, commodities, insecticide residues 2787

**USA cont.**

- Coleophora* 1797
- commodities, pesticide residues 7572
- cotton
- integrated pest management, reviews 5603-5604
- pest control 3623
- Spodoptera exigua*, natural enemies 6735
- Crabro, prey 8373
- crops
- insect pests, predators 4393
- integrated pest management 6280, 6413-6414
- Dioryctria disclusa* 10232
- Drosophila* 2744
- Erythroneura*, parasitoids 7342
- Fagus grandifolia*, *Cryptococcus fagisuga* 2667
- fishes, pesticide residues 6363
- food plants, *Empoasca fabae* 6026
- foods, insecticide residues 2321
- forests, *Lymantria dispar* 4210
- Frankliniella occidentalis* 7167
- fruits, *Anastrepha suspensa* 1778
- grapes, *Vitacea polistiformis* 5542
- grasses, Cicadellidae 6518, 8088
- groundwater
- insecticide residues 6387
- pesticide residues 9638
- Heliothis* 4863
- Heliothis australis* 4863
- Heliothis virescens* 5296
- Hemileuca* 1129
- Hemileuca electra* 8677
- insecticides
- books 894
- legislation 6929
- risk, legislation 405
- integrated pest management
- conferences 3721
- food safety 10478
- lemons, insecticide residues 468
- Lymantria dispar* 2656
- maize, fields, *Macrocentrus grandii* 7063
- man, pesticides, effects 10571
- National Parks, invertebrates 11343
- Ocidryas editha* 10235
- Orgyia pseudotsugata* 4156
- ornamental plants, insect pests 3737
- ornamental woody plants, integrated pest management, books 6928
- pecans, pests 8797
- pesticides
- effects 2357
- legislation 1384-1385, 2252, 2265, 10525
- marketing 10531
- nontarget effects 2306
- productivity 418
- registration 10529
- residues, legislation 3598
- safety 10533
- usage 3623, 6280
- economics 10524
- safety 419
- Pinus*, insect pests 6782
- Prosopis velutina*, *Thasus neocalifornicus* 9065
- Psocoptera 5771
- Rhagoletis* 7148
- Schistocerca gossypii* 6061
- Solenopsis* 8340
- Solenopsis invicta* 6113
- Sterna caspia*, pesticide residues 1346
- stored products, integrated pest management 6877
- stored products pests, predators 6168
- Taeniothrips inconsequens* 1150
- Tomicus piniperda* 6793
- turtles, insecticide residues 3372
- Vaccinium*, pest control 8769
- water
- insecticide residues 2369
- pesticide residues 9647
- weeds, biological control 2215
- wheat
- Diuraphis noxia* 6433
- insecticide residues 468
- Mayetiola destructor* 4402, 6435, 9687



- USA cont.**  
wheat cont.  
*Schizaphis graminum* 9686
- Alabama**  
cotton, *Anthonomus grandis* 2642  
forest trees, *Lymantria dispar* 2653  
groundnuts, *Elasmopalpus lignosellus* 686  
pecans, *Cydia caryana* 4611, 9906  
sediment, insecticide residues 1345, 3377, 8580  
weeds, natural enemies 2756
- Alaska**  
forest trees, *Papilio canadensis* 3634  
forests, *Dendroctonus rufipennis* 8897  
grasses, *Commellus cedilla* 8088  
marine mammals, pesticide residues 472  
*Picea glauca*, *Dendroctonus rufipennis* 771  
*Picea* × *lutzi*, *Dendroctonus rufipennis* 2707  
*Salix*, insect pests 7921  
*Salix lasiandra*, *Nematus calais* 1674  
wild plants, Acrididae 3689
- Arizona**  
*Brachystola magna* 5059  
Bruchidae, parasitoids 4766  
*Cercidium microphyllum*, insect pests 7926  
*Chrysomellus nauseosus*, *Aciurina trixa* 2727
- cotton**  
*Bemisia argentifolii* 10913  
*Bucculatrix thurberiella* 4663  
insect pests 706  
predators 712  
*Pectinophora gossypiella* 3620  
*Diatraea grandiosella* 11275  
food plants, *Taeniopoda eques* 8259  
grasslands, Orthoptera 5261  
*Juniperus*, insects 12019  
lettuces  
fields, Hymenoptera 4516  
*Liriomyza* 4516  
*Myzus persicae* 6596  
melons, *Bemisia tabaci* 4538, 4542, 9819  
*Pinus*, insect pests 10963  
*Pinus edulis*, *Dioryctria albobittella* 7939  
*Populus*, *Chrysomela scripta* 8878  
*Populus fremontii*, *Pemphigus obesinymphae* 5649  
*Pseudotsuga menziesii*, *Choristoneura occidentalis* 9998  
*Quercus emoryi*, *Cameraria* 1664  
*Salix exigua*, *Disonychia pluriligata* 4704  
*Salix lasiolepis*  
arthropod pests 11995  
*Euura lasiolepis* 4703  
sorghum, *Helicoverpa zea* 2191  
water, insecticide residues 6385
- Arkansas**  
cotton  
*Anthonomus grandis* 9958  
*Aphis gossypii* 11964, 11967  
*Heliothis virescens* 11966  
*Lygus lineolaris* 709  
cowpeas, insect pests 8702  
groundwater, insecticide residues 10667  
*Opuntia*, *Zophodia prodenialis* 1758  
rice, pest control, reports 6903  
*Solenopsis invicta* 3180  
sorghum  
fields, predatory arthropods 9715  
*Helicoverpa zea* 9715  
*Vaccinium corymbosum*, pesticide residues 5756
- California**  
*Abies concolor*  
*Mindarus kinseyi* 10975  
*Scolytus ventralis* 777  
*Acer saccharinum*, *Drepanaphis acerifoliae* 8864  
almonds, arthropod pests 6700  
*Ambrosia*, *Euresta stigmatica* 12059  
*Apis mellifera*, ectoparasites 7353, 9449
- USA cont.**  
**California cont.**  
apples  
*Cydia pomonella* 4558, 11851  
insect pests 10853  
orchards, Carabidae 4558, 11851  
*Phyllonorycter*, parasitoids 2551  
*Atriplex polycarpa*, *Orthezia annae* 6185  
*Baccharis sarothroides*, *Tephritis arizonensis* 829  
*Bactrocera dorsalis* 9350  
birds, pesticide residues 11624  
*Brickellia*, *Procecidochares flavipes* 2726  
broccoli  
Aphididae 9804  
parasitoids 6587  
*Brevicoryne brassicae* 4508, 7766  
Bruchidae, parasitoids 4766  
cassava, habitats, *Amblyseius limonicus* 5478  
celery  
Aphididae 10808  
*Liriomyza huidobrensis* 10809  
*Celtis sinensis*, *Coccus pseudomagnoliarum* 8864  
*Centaurea solstitialis*, natural enemies 2750  
*Ceratitis capitata* 7506  
*Chamaelaucium uncinatum*, *Oncaticus goughi* 10997
- Citrus**  
*Aonidiella* 4590, 9890  
*Aonidiella aurantii* 665  
arthropod pests 8787  
orchards, *Aphytis melinus* 3958
- cotton**  
*Aphis gossypii* 1636  
*Bemisia argentifolii* 6732  
*Bemisia tabaci* 4659, 8841  
fields, insects 1636  
integrated pest management 9964  
*Pectinophora gossypiella* 708, 4671-4672, 8843  
*Trichoplusia ni* 10920
- crops**  
*Bemisia argentifolii* 10794  
*Lygus hesperus* 4661  
*Dalya* 3776  
*Danaus plexippus* 5080, 9289  
dates, *Niudulidae* 6674  
*Dendroctonus brevicomis* 11976  
*Drosophila* 10231, 11141  
*Drosophila obscura* group 8297  
*Erigeron glaucus*, insects 6842  
*Erythroneura elegantula*, parasitoids 7342  
*Eucalyptus*, *Phoracantha semipunctata* 6753-6754, 6814
- field crops**  
insect pests 4664  
*Spodoptera exigua* 6407  
fishes, insecticide residues 8551
- food plants**  
*Bemisia tabaci* 6595  
*Papilio zelicaon* 11316
- forest trees**  
insect pests 2646  
*Paranthrene robiniae* 4686  
*Formica* 1194  
grapefruits, *Aonidiella aurantii*, natural enemies 8788
- grapes**  
*Erythroneura variabilis* 11879  
habitats, *Antheusius caudiglandis* 11875  
insect pests 9878  
Tetranychidae 11880  
*Viteus vitifoliae* 11881  
greenhouse crops, insect pests 8450  
groundwater  
insecticide residues 4343  
pesticide residues 496, 9640  
*Holocnemus pluchet* 6193  
*Hydrilla verticillata*, *Bagous affinis* 2751  
insect pests 10684  
*Larus occidentalis*, insecticide residues 11648
- USA cont.**  
**California cont.**  
lawns and turf, *Cyclocephala hirta* 791  
lucerne, fields, Hemiptera 4661  
*Lupinus arboreus*, *Orgyia vetusta* 6192, 12004, 12052  
maize, Lepidoptera 9703  
man  
insecticides, effects 8531  
pesticides, effects 1361  
*Melanoplus sanguinipes* 186  
melons  
Aphidoidea 11910  
*Bemisia tabaci*, parasitoids 6696  
*Mindarus victoria* 10975  
nontarget organisms, insecticide residues 11614  
*Occidryas editha* 1172, 3923  
Onagraceae, *Proserpinus clarkiae* 8945  
*Orgyia vetusta*, predators 4772  
ornamental plants  
Aphididae, predators 8940  
nurseries, arthropod pests 9999  
ornamental woody plants, *Acizzia uncatoides* 8943  
*Paroxyna genalis*, parasitoids 5016  
peaches, pest management 654  
pest control 382  
extension 10464  
information 10464
- Pinopsida**  
*Dendroctonus brevicomis* 7936  
Scolytidae 10961  
*Pinus jeffreyi*, *Dendroctonus* 6781  
*Pinus ponderosa*, *Ips pini*, natural enemies 7953  
*Pinus radiata*  
Coleoptera, parasitoids 8913  
*Zootermopsis nevadensis* 768  
*Porcellio scaber* 1254  
*Prunus salicina*, *Tetranychus* 6655  
*Pseudotsuga menziesii*, *Pityophthorus orarius* 7961
- Quercus**  
*Andricus californicus* 1667  
*Xyleborus* 5644  
*Quercus wislizenii*, Curculionidae 3638  
*Reticulitermes hesperus* 5185
- rice**  
fields, pesticide residues 1378  
*Lissorhoptrus oryzophilus* 8667  
roses, *Tetranychus* 12028  
Scrophulariaceae, *Occidryas editha* 11327  
sediment, insecticide residues 3377  
*Sequoia sempervirens*, habitats, soil arthropods 10930  
soil, pesticides, degradation 497  
*Spartina alterniflora*, *Prokelisia marginata* 2752
- stone fruits**  
*Anarsia lineatella* 3539  
orchards, parasitoids 3539  
strawberries, *Lygus hesperus* 8772-8773  
sugarbeet, *Circulifer tenellus* 5802  
*Tilia*, *Eucallipterus tiliae* 8887
- tomatoes**  
insect pests 635  
integrated pest management 7789  
Lepidoptera 6407  
*Spodoptera exigua* 4526  
trees, *Archips argyrospilus* 11982  
*Trichogramma pretiosum* 6184  
*Trichostereis* 8320  
*Ulmus*  
insects 2671  
*Pyrrhalta luteola* 745  
parasitoids 4711
- walnuts**  
*Amyeloides transitella* 4608  
*Parasieulella profittai* 3762  
*Rhagoletis completa* 4607  
water, insecticide residues 11657  
weeds, *Lygaenus kalmii* 825  
wildlife, pesticide residues 9630  
wood, *Coptotermes formosanus* 6893



## USA cont.

- California cont.  
woody plants, *Siphoninus phillyreae* 11996
- Colorado  
*Boloria* 1059  
*Boloria acrocnema* 7249  
cereals, *Schizaphis graminum* 8627  
*Chrysothamnus*, *Triphaba nitidicollis*, predators 4465  
Cicindelidae 6983  
Coleoptera 4038  
forest trees  
*Choristoneura occidentalis* 8899  
*Dendroctonus rufipennis* 3656  
*Glaucopsyche lygdamus* 3922  
grasslands  
*Opeia obscura* 3941  
*Pogonomyrmex occidentalis* 2086  
*Linum lewisii*  
insects 295  
pollinators 295  
Lycaenidae 220  
*Lytta nuttalli* 11301  
maize, *Diabrotica virgifera* 9705  
*Melanoplus bivittatus* 9334  
Miridae 2044  
*Pascopyrum smithii*, Acrididae 4454  
*Penstemon*, *Occidryas chalcidona* 3861  
*Philanthus* 9292  
Pieridae 7206  
*Pinus ponderosa*, *Dendroctonus ponderosae* 12013  
*Pogonomyrmex occidentalis* 4083, 8395, 11168, 11409  
*Quercus*, *Disholcaspis quercus-mamma* 8874  
*Reticulitermes tibialis* 8395  
Sesiidae 515  
wheat  
*Diuraphis noxia* 11725  
fields  
*Aphidius colemani* 4401  
Hymenoptera 11725  
*Yucca glauca*, *Tegeticula yuccasella* 4749
- Connecticut  
apples  
orchards, *Sympiesis marylandensis* 9837  
*Phyllonorycter crataegella* 9837  
asparagus, *Crioceris* 10814  
broadleaves  
forests, Formicidae 4688  
*Lymantria dispar* 4688  
*Castanea dentata*, *Synanthedon castaneae* 253  
forests, Formicidae 4680  
golf courses, *Blitopertha orientalis* 6815  
*Lambdina fervidaria* 4379  
*Tsuga*, *Lambdina fervidaria ahasaria*, natural enemies 2708  
*Tsuga canadensis*, *Adelges tsugae*, predators 12018
- Delaware  
*Cucurbita texana*, *Epilachna borealis* 6621  
fields, habitats, predators 3049  
Mantidae 226  
*Mantis religiosa* 4035  
potatoes, *Leptinotarsa decemlineata* 9775
- Florida  
*Anastrepha suspensa* 4222, 4364  
*Annona*, pollinators 4601  
Asclepiadaceae, *Danaus gilippus* 4025  
Asteraceae, *Asphondylia borrichiae* 10985  
*Automeris io* 7482  
avocados, *Pseudocysta perseae* 5561  
biological control agents, introduction 4211  
*Borrichia frutescens*, insects 5706  
cabbages, *Plutella xylostella* 6575, 10803  
*Capsicum*, *Polyphagotarsonemus latus* 8746

## USA cont.

- Florida cont.  
*Capsicum annuum*, *Anthonomus eugenii* 4532  
Citrus 4593  
*Aleurocanthus woglumi* 3554  
*Anastrepha suspensa* 1571-1573, 1777, 1780  
arthropod pests 11896  
commodities, *Anastrepha suspensa* 1776, 1779  
*Frankliniella bispinosa* 259  
habitats, *Aleurodothrips fasciapennis* 5554  
orchards, *Endaphis maculans* 4593  
pest control 3560  
*Phyllocoptruta oleivora* 7850  
Thysanoptera 5554  
*Unaspis citri* 7847  
Coleoptera 4043  
cotton  
*Anthonomus grandis* 2642  
fields, Hymenoptera 4667  
Noctuidae 4667  
crops, *Metamasius hemipterus* 2239  
*Cucurbita pepo*  
*Bemisia tabaci* 5510  
insect pests 11835  
Cucurbitaceae, *Diaphania nitidalis* 6616  
culinary herbs, insect pests 6832  
Curculionidae 5073  
*Drosophila melanogaster* 9255  
*Eugenia uniflora*, *Anastrepha suspensa* 673  
food plants, *Metamasius callizona* 5385  
forest trees, *Lymantria dispar* 404, 2653  
forests, Coleoptera 11978  
Formicidae 6093  
*Gossypium thurberi*, *Bucculatrix thurberiella* 2741-2742  
grapefruits, *Phyllocnistis citrella* 10879  
groundnuts  
*Bemisia argentifolii* 10901  
*Bemisia tabaci* 4631  
fields, Aphelinidae 4631  
*Guaiaacum sanctum*, *Toumeyella lig-numvitae* 11  
*Incisitermes schwarzi* 1231  
insect pests 10323  
insects 10324  
introduced species 1199  
invertebrates, pets 10325  
*Ipomoea*, *Chelymorpha cribaria* 5702  
Isoptera 6968  
lawns and turf  
*Scapteriscus* 4756  
Scarabaeidae 10007  
Lepidoptera 10398  
limes, *Phyllocnistis citrella* 11897  
*Lonicera japonica*, Noctuidae 4773  
maize  
*Spodoptera* 2428  
*Spodoptera frugiperda* 6463  
man, pesticide residues 1351  
mandarins, *Brevipalpus* 2578  
marine environment, insecticide residues 11673  
*Monomorium pharaonis* 288, 4084  
*Morrenia odorata*, *Toxotrypana curvicauda* 2588  
Nymphalidae 7146  
*Odontotaenium floridanum* 5801  
oranges  
*Phyllocoptruta oleivora* 4589  
*Propioselopsis* 5520  
*Papilio* 7223  
*Pareuchaetes pseudoinulata* 2216  
*Pasimachus* 4033  
pawpaws, *Anastrepha suspensa* 11909  
pecans, orchards, *Harmonia axyridis* 4609  
pest control 6924  
*Phyllocnistis citrella* 3551  
*Pinus*, Curculionidae 8898  
*Pistia stratiotes*, insects 3694  
*Pityophthorus pecki* 12

## USA cont.

- Florida cont.  
*Plumeria rubra*, *Pseudosphinx tetrio* 8939  
*Plutella xylostella* 10539-10540  
*Prokelisia marginata*, parasitoids 247  
*Quercus*, *Callirhytis* 3640  
*Reticulitermes* 10134  
*Rhynchophorus cruentatus* 3993, 4362, 4376  
salt marshes, insects 5165  
*Serenia repens*, *Litoprosopus futilis* 3674  
soil, pesticides, degradation 497  
*Solanum viarum*, *Leptinotarsa decemlineata* 11024  
*Solenopsis invicta* 7222, 9295, 11407  
*Solenopsis invicta* × *S. richteri* 5141  
*Solidago*, insects 2747  
soybeans  
fields, predatory arthropods 4468  
insect pests 9750  
squashes, *Diaphania hyalinata* 9824  
*Stenotaphrum secundatum*, *Myndus crudus* 6516  
strawberries  
arthropod pests 11868  
fields, *Phytoseiulus persimilis* 4573, 11867  
*Tetranychus urticae* 4573  
sugarcane  
Elateridae 10904  
*Leptodictya tabida* 4636  
sweet potatoes, *Cylas formicarius* 2517  
*Tillandsia*, *Metamasius callizona* 5385  
tomatoes, *Frankliniella* 8741  
*Trachymyrmex septentrionalis* 4082  
vegetables  
*Bemisia tabaci* 11774  
*Thrips palmi* 11775  
water, insecticide residues 6385  
watermelons  
Aphididae 4537  
*Frankliniella fusca* 10834  
weeds, natural enemies 2756  
wild plants, *Carneiocephala floridana*, parasitoids 4777  
*Yucca elephantipes*, *Scyphophorus acupunctatus* 2718
- Georgia  
cereals, insect pests 4398  
cotton, *Anthonomus grandis* 2642  
cowpeas, *Chalcodermus aeneus* 5469  
forest trees, *Lymantria dispar* 2653  
grapes, *Vitacea polistiformis* 9866  
greenhouse crops, Thysanoptera 787  
groundnuts, commodities, insect pests 2780  
*Iridomyrmex humilis* 2094  
lawns and turf, pest control 4757  
*Lonicera japonica*, Noctuidae 4773  
maize  
commodities, insect pests 6874  
*Diabrotica undecimpunctata* 8651  
*Helicoverpa zea* 4426, 9706  
Noctuidae 2425  
*Spodoptera frugiperda* 2424, 6461, 6463, 10707  
natural enemies 6462  
Nymphalidae 7146  
pastures, *Solenopsis invicta* 2095  
pecans  
Aphididae 4609  
habitats, Neuroptera 2122  
orchards, *Harmonia axyridis* 4609  
pesticides, usage 3586  
*Pinus strobus*, *Conophthorus coniperda* 9981  
*Pinus taeda*, *Rhyacionia frustrana* 4733  
Poaceae, insect pests 9670  
*Prunus*, *Conotrachelus nenuphar* 6654  
rape  
*Ceutorhynchus assimilis* 11922  
insect pests 4618  
*Rhododendron*  
habitats, Miridae 1711  
insect pests 1711



## USA cont.

## Georgia cont.

- soil fauna 3395
- Solenopsis invicta* 11278
- soyabeans
  - insect pests 9750
- Noctuidae 9753
- stored products
  - habitats, *Bracon hebetor* 9613
  - Plodia interpunctella*, parasitoids 9613
- Vespa crabro* 6198
- weeds, natural enemies 2756
- wheat, commodities, Coleoptera 9008

## Hawaii

- arthropods, checklists 3732
- avocados, *Bactrocera dorsalis* 9904
- Bactrocera dorsalis* 4365, 9350
  - parasitoids 1216
- Bactrocera latifrons* 7507
- bananas, *Gaurax perreirai* 5551
- Braconidae 3226, 4109
- Ceratitis capitata* 4367, 4378, 5374, 6285
- coffee, Tephritidae, parasitoids 9940
- Drosophila* 11315
- Encarsia hawaiiensis* 4
- food plants, *Cryptophlebia* 7854
- fruits, *Bactrocera dorsalis* 2236
- guavas
  - Bactrocera dorsalis* 5565, 8795
  - orchards, Hymenoptera 8795
- insects 6396
- Ipomoea acuminata*, Drosophilidae 2723
- Macadamia integrifolia*, *Cryptophlebia* 11919
- marrows, Homoptera 8747
- Operculina tuberosa*, Agrius cingulatus 4753
- plantations, insects 3562
- Platynota stultana* 9356
- Pritchardia*, *Loulucoris* 11103
- Pseudotsuga menziesii*, wood, *Coptotermes formosanus* 838, 8023
- Rhynchopalpus brunellus* 9056
- Tephritidae, parasitoids 7521

## Idaho

- Aphididae 10451
- aquatic weeds, *Myzus lythri* 11015
- Camponotus* 1988
- cereals, *Schizaphis graminum* 6424
- food plants
  - Hulstia undulata* 1183
  - Myzus persicae* 4175
- Formicidae 2045
- Hypodryas gillettii* 11289
- meadows, *Hypodryas gillettii* 173
- Mindarus victoria* 10975
- Myzus ascalonicus* 7760
- Pinus ponderosa*, *Ips pini* 5666
- potatoes, *Myzus persicae* 7760
- Pseudotsuga menziesii*
  - Choristoneura occidentalis* 9997
- wood, *Dendroctonus pseudotsugae* 8995
- rape, *Ceutorhynchus assimilis* 11922
- Salvia aethiops*, *Phrydiuchus tau* 3693
- weeds, natural enemies 11026
- wood, Coleoptera 11041

## Illinois

- Agrotis ipsilon* 5070
- atmosphere, pesticide residues 1184
- Baptisia leucantha*, *Apion rostrum* 6141
- Conium maculatum*, Lepidoptera 4783
- crops, insecticide residues 3398
- fungi, *Oxyporus* 6097
- lucerne, *Hypera postica* 6519
- maize
  - Diabrotica* 4425
  - Ostrinia nubilalis* 4424
- Mirabilis nyctaginea*, *Heliodines* 10991
- Nitidulidae 4030
- Pastinaca sativa*, *Depressaria pastinacella* 2743
- Pholiota aurivela*, *Oxyporus stygicus* 1738

## USA cont.

## Illinois cont.

- Salix*, *Plagioderma versicolora* 6762
- soil, pesticides, degradation 497
- Solenopsis molesta* 7972
- Ulmus*, *Pyrrhalta luteola* 9976

## Indiana

- Alliaria petiolata*, *Pieris virginianensis* 5718
- Bromus inermis*, *Simyra henrici*, parasitoids 2475
- cabbages, *Plutella xylostella* 9801
- melons, *Acalymma vittatum* 9822
- Pinus sylvestris*, *Tomicus piniperda* 9991
- potatoes, *Leptinotarsa decemlineata* 3502

## Iowa

- Agrotis ipsilon* 5070
- Apis mellifera* 9514
- apples
  - Cydia pomonella* 9844
- integrated pest management 9844
- lucerne
  - fields, Coccinellidae 3484
  - insect pests 3484
- maize
  - Helicoverpa zea* 9706
  - Ostrinia nubilalis* 2435
- populus*, *Chrysomela scripta* 10223
- soyabeans, *Hypera scabra* 6539
- Vanessa atalanta* 7195

## Kansas

- Asterocampa celtis* 7225
- cereals, *Schizaphis graminum* 8627
- food plants, *Tetranychus urticae* 10717
- lucerne
  - Empoasca fabae* 9745
  - Epicauta* 6520
  - Epicauta occidentalis* 4459, 10749
- pecans, habitats, Neuroptera 2122
- Quercus macrocarpa*, wood, Chrysomelidae 1669
- Silphium integrifolium*, *Antistropheus silphii* 7718
- wheat
  - commodities, insect pests 4808, 6871
  - Diuraphis noxia* 9685
  - Schizaphis graminum* 539, 1427

## Kentucky

- Cercis canadensis*, *Enchenopa binotata* 5661
- forest trees, *Lymantria dispar* 2653
- fruit vegetables, Chrysomelidae 4519
- Juniperus*, *Thyridopteryx ephemeraeformis* 7969
- Nymphalidae 7187
- soyabeans, *Empoasca fabae* 2484
- water, pesticide residues 492

## Louisiana

- Anticarsia gemmatilis* 6260, 10276
- birds, insecticide residues 2327
- Coptotermes formosanus* 3093
- cotton
  - Heliothis virescens* 11966
  - insect pests 2625
  - Spodoptera exigua* 6736
  - Heliothis virescens* 8506, 9584
  - Lagerstroemia indica*, *Saracallia kahawaluokalani* 2719
- Pinus*, *Dendroctonus frontalis* 1685
- Pinus taeda*
  - Dendroctonus frontalis* 9985
- Hemiptera 7945
- rice, *Lissorhoptrus oryzophilus* 1458, 6483, 11737
- soyabeans 8688
  - Anticarsia gemmatilis* 4469, 11767
  - Chrysodeixis includens* 1474, 7731
  - insect pests 9750
  - Spodoptera exigua* 4470
- trees, *Archips argyrospilus* 11982

## Maine

- arthropods 4115
- Clivina pallida* 9359
- Hylastes opacus* 3126
- peatlands, Carabidae 11349

## USA cont.

## Maine cont.

- Pinopsida, *Choristoneura fumiferana* 1682, 2690
- strawberries
  - insect pests 7835
- Lygus lineolaris* 5538

## Maryland

- Acer saccharum*, *Xiphidria maculata* 8175
- biological control, reviews 6273
- Cirsium arvense*, natural enemies, parasitoids 6854
- Coleomegilla maculata* 1949
- Cornus florida*, Sesiidae 2675
- crops
  - insect pests, predators 9755
- Manduca sexta*, parasitoids 4641
- forest trees
  - Hypogastrura simsi* 7910
  - Lymantria dispar* 2652
- forests, Carabidae 3080
- insects 3004
- lucerne, *Acyrtosiphon* 2479
- Lymantria dispar* 2183
- predators 9419
- maize
  - Ostrinia nubilalis* 11732
  - natural enemies 5424
- mulberries, *Pseudauleacaspis pentagona* 7836
- Ostrinia nubilalis* 4375
- parks, *Lymantria dispar* 4684
- pesticides, regulations 417
- Phaseolus vulgaris*, *Epilachna varivestis* 4476
- Phlox*, Miridae 12054
- Populus grandidentata*, *Phratora purpurea purpurea* 744
- Pteridium aquilinum*, *Aneugmenus flavipes* 8175
- Quercus*, *Lymantria dispar* 2666, 4697
- soil, insecticides, effects 2362
- Tenodera sinensis* 10382
- Trifolium*, *Tychius cuprifer* 6526

## Massachusetts

- Alliaria petiolata*, *Pieris napi oleracea* 5717
- apples
  - Acari 648
  - insect pests 9832
  - integrated pest management 6641
  - Rhagoletis pomonella* 516, 6636, 9841
- Araneae 3078
- asparagus, *Crioceris* 10814
- broadleaves, *Lymantria dispar* 4687
- Crataegus mollis*, *Rhagoletis pomonella* 5655
- Echium vulgare*, *Longitarsus melanurus* 9302
- food plants, *Acrobasis vaccinii* 7061
- forest trees, *Lymantria dispar* 2652
- fruits, *Rhagoletis pomonella* 4556
- integrated pest management 11551
- Lymantria dispar* 2183, 10491
- marine environment, pesticide residues 2344
- Pieris virginianensis* 8247
- potatoes
  - Leptinotarsa decemlineata* 4496
  - parasitoids 7753
- Quercus*, *Lymantria dispar* 4698
- Quercus rubra*, *Lymantria dispar*, natural enemies 10942
- rivers, pesticide residues 2336
- Rosaceae, *Rhagoletis pomonella* 7817
- Vaccinium*, insecticide residues 3543

## Mexico

- forest trees, *Choristoneura occidentalis* 8896
- Tillandsia*, *Metamasius callizona* 5385

## Michigan

- Acer*, *Corthylus punctatissimus* 3651
- Aphididae, predators 8372
- asparagus, *Crioceris* 10814
- Barbarea vulgaris*, *Plutella xylostella* 5495
- birds, insecticide residues 8550



## USA cont.

## Michigan cont.

- broadleaves, *Lymantria dispar* 732-733  
*Bromus*, seeds, *Pyemotes tritici* 3193  
 Carabidae, ectoparasites 8364  
 celery, *Aphis helianthi* 3520  
 crops, habitats, *Coccinella septempunctata* 5392  
*Diabrotica*, pest control 2316  
*Drosophila* 1099  
 fishes, insecticide residues 7616  
 food plants, *Acrobasis vaccinii* 7061  
 forest trees  
   *Lymantria dispar* 6744, 6746  
   *Papilio canadensis* 3634  
 insects as food 339  
*Larus argentatus*, insecticide residues 4306  
 Lepidoptera 10438  
*Malus* 2552  
*Pinus banksiana*, *Slaterobius quadristriatus* 3659  
*Pinus sylvestris*, Scolytidae 6793  
*Populus tremuloides*, *Malacosoma dissitria* 8879  
 rivers  
   insecticide residues 3355  
   pesticide residues 3356  
 Rosaceae, insect pests 7813  
*Salix*, *Altica bimarginata* 5651  
*Salvelinus namaycush*, insecticide residues 3343  
 soil, *Cryptopygus bipunctatus* 5818  
*Spartina alterniflora*, *Prokelisia marginata* 5175  
*Varroa jacobsoni* 11448  
 water, insecticide residues 6385

## Minnesota

- Diabrotica*, pest control 2316  
 environment, insecticide residues 10654  
*Larus argentatus*, insecticide residues 4306  
*Lepomis macrochirus*, insecticides, nontarget effects 11625  
*Linepithema humile* 2099  
 lucerne  
   fields, parasitoids 4460  
   *Hypera postica* 4460  
 maize, *Ostrinia nubilalis* 10708-10709  
 man, pesticides, effects 7574  
*Ostrinia nubilalis* 9579  
 pesticides, usage 7574  
 ponds, insecticide residues 8585  
*Populus tremuloides*, *Malacosoma dissitria* 8879  
*Quercus*, arthropods 1670  
*Solidago*, *Eurosta solidaginis* 8974  
*Solidago missouriensis*, *Trirhabda canadensis* 4770

## Mississippi

- Apis mellifera* 9514  
 cotton  
   *Anthonomus grandis* 9958  
   *Aphis gossypii* 707, 9960  
   *Heliothis virescens* 2641, 9952, 9957, 11966  
   insect pests 4662  
   Noctuidae 2637  
*Diatraea grandiosella* 11275  
 field crops, *Chrysodeixis includens* 588  
 fields, habitats, beneficial arthropods 5167  
 food plants 4256  
 forest trees, *Lymantria dispar* 2653  
 grapes, *Vitacea polistiformis* 4578  
*Helicoverpa zea* 9257  
*Heliothis virescens* 9584  
 maize, *Spodoptera frugiperda* 6463  
*Pinus taeda*, *Dendroctonus frontalis* 9985  
*Solenopsis* 5141  
*Trypoxylon politum*, parasitoids 8386  
 water, pesticide residues 505

## Missouri

- Agrotis ipsilon* 5070  
 apples, *Phyllonorycter* 645  
*Diatraea grandiosella* 11275

## USA cont.

## Missouri cont.

- forests, arthropods 11403  
*Frankliniella occidentalis* 441  
 lucerne, *Empoasca fabae*, pathogens 11500  
 maize, *Diabrotica virgifera* 2422  
 ornamental plants, *Frankliniella occidentalis* 396  
*Quercus alba*, insect pests 8869  
 trees, *Oncideres cingulata* 11983  
*Trypoxylon politum*, parasitoids 8386

## Montana

- Acrididae 4080, 10359  
   parasitoids 9431  
 barley, commodities, insects 5741  
*Chorthippus curtipennis*, pathogens 363  
*Euphorbia esula*, biological control 11032  
 fields, habitats, beneficial insects 3228  
 grasses, *Commellus semicolon* 8088  
 grasslands, Acrididae 581, 3479  
*Leptothorax* 9411  
 meadows, *Hypodryas gillettii* 173  
*Melanoplus* 6146  
*Pinus albicaulis*, *Dendroctonus ponderosae* 762  
 rangelands  
   Acrididae 4451  
   *Melanoplus* 6517

## Nebraska

- Buchloe dactyloides*, Pseudococcidae 6506  
 cereals, *Schizaphis graminum* 8627  
*Cirsium canescens*, insects 8975  
 environment, insecticides, degradation 2377  
 grasslands  
   insects 2020  
   predators 2020  
 lucerne, *Hypera postica* 2481  
 maize, *Richia albicosta* 1441  
*Opuntia fragilis*, insects 6858  
*Pogonomyrmex occidentalis* 8290  
 soybeans, *Ceratomyia trifurcata* 10760  
*Ulmus pumila*, *Pyrhalta luteola* 6764  
 wheat, Aphididae 8633

## Nevada

- Artemisia tridentata*, *Europiella carvalhoi* 11127  
*Drosophila pseudoobscura* 11141  
 food plants, *Euphydryas editha* 8989  
*Trichostereis* 8320

New Hampshire, *Hylastes opacus* 3126

## New Jersey

- aubergines, *Leptinotarsa decemlineata* 6612  
 estuaries, sediment, pesticide residues 8590-8591  
 lawns and turf, *Popillia japonica* 4755  
 maize, *Spodoptera frugiperda* 549  
*Pinus rigida*  
   forests, arthropods 9984  
   *Slaterobius quadristriatus* 3659  
 potatoes, *Leptinotarsa decemlineata* 7757, 9776  
*Quercus*, *Lymantria dispar* 4698  
 sediment, pesticide residues 9635  
 tomatoes, *Leptinotarsa decemlineata* 11827

## New Mexico

- Astragalus mollissimus*, *Cleonis trivittatus* 8988  
 deserts, Isoptera 9452  
 food plants, *Pogonomyrmex barbatus* 8971  
 Formicidae 1191  
 lawns and turf, *Parapediasia teterella* 4758  
*Pogonomyrmex barbatus* 3190  
*Promachus albifacies* 7183  
*Quercus*, *Phyllonorycter*, parasitoids 4737

## New York

- apples  
   arthropod pests 4553, 6648  
   Cicadellidae 4557  
   orchards, *Neoseiulus fallacis* 649

## USA cont.

## New York cont.

## apples cont.

- Panonychus ulmi* 4561  
*Phyllonorycter blancardella* 3535  
 arthropod pests, *Salix* 5650  
 Asilidae 6199  
*Betula papyrifera*, Tenthredinidae, predators 3954  
 dairy farming, integrated pest management 10479  
*Drosophila*, pathogens 6240  
*Echium vulgare*, *Longitarsus melanurus* 9302  
*Empoasca fabae* 11474  
 forest trees, Scolytidae 3658  
 horticultural crops, integrated pest management 9842  
*Hylastes opacus* 3126  
*Larinioides cornutus* 6058  
*Leptinotarsa decemlineata* 6071  
*Leptothorax longispinosus* 9414  
 lucerne, *Otiorynchus ligustici*, pathogens 9746  
*Lymantria dispar* 2018, 2183  
 maize, *Diabrotica virgifera* 4421  
 peatlands, Carabidae 11349  
*Pinus*, *Ips pini* 4729  
*Plantago lanceolata*  
   *Euphydryas phaeton* 6857  
   Lepidoptera 1090, 11030  
 predatory insects 1090  
*Quercus*, *Lymantria dispar* 4698  
 roses  
   greenhouses, *Phytoseiulus persimilis* 10980, 12024  
   *Tetranychus urticae* 10980, 12024  
*Salix*, *Phyllocolpa*, parasitoids 3646  
*Salix sericea*, insect pests, natural enemies 6761  
 soil, pesticides, degradation 497  
*Solidago*, *Eurosta solidaginis* 3670  
*Solidago odora*, habitats, *Phymata americana* 4779  
*Trachymyrmex septentrionalis* 4082  
 vegetables, pest control, conferences 6908

## North Carolina

- Abies*, forests, *Dasycerus bicolor* 35  
*Abies fraseri*, *Dreyfusia piceae* 8927  
 Carabodes 8067  
 cotton, *Anthonomus grandis* 2631  
 food plants, *Tetranychus urticae* 10717  
 forest trees  
   insect pests 2655  
   *Lymantria dispar* 2653  
 greenhouse crops, pest control 12021-12022  
*Leptinotarsa decemlineata* 10547  
 pesticides, poisoning 9624  
*Pharbitis purpurea*, insects 1740  
*Pinus*, *Dendroctonus frontalis* 7943  
*Pinus strobus*, *Conophthorus coniperda* 9981  
*Rhododendron*, *Stephanitis pyrioides* 4748  
*Solidago altissima*, *Uroleucon* 6067  
*Tetragnatha elongata* 5178  
 Thysanoptera 9279  
 tobacco, *Myzus nicotianae* 4647  
 tomatoes  
   *Frankliniella* 9809  
   *Macrosiphum euphorbiae* 4525  
*Trifolium repens*, *Tetranychus urticae* 5394  
 weeds  
   beneficial insects 2218  
   natural enemies 2756

## North Dakota

- Acrididae 10359  
   parasitoids 9431  
*Charadrius vociferus*, insecticides, effects 9608  
*Pogonomyrmex occidentalis* 7252  
 rape, *Phyllotreta cruciferae* 1591  
 rivers, insecticide residues 8557  
 sunflowers  
   *Cylindrocaptus adpersus* 681, 6707  
   fields, *Nealiolus curculionis* 681



## USA cont.

## North Dakota cont.

## sunflowers cont.

*Smicronyx fulvus* 8804

## Ohio

*Apis mellifera*, ectoparasites 4108

Araneae 5162

*Capsicum annuum*, Lepidoptera 11832

*Danaus plexippus* 4019, 7224

forest trees, Nitidulidae 7903

lawns and turf, *Ataenius spretulus* 10009

## maize

*Diabrotica* 2433

*Mythimna unipuncta* 4420

sorghum, *Hypena scabra* 10762

## soybeans

## fields

Araneae 7733

parasitoids 3493

*Hypena scabra* 3493

water, insecticide residues 11665

## Oklahoma

cereals, *Schizaphis graminum* 8627

cotton, *Anthonomus grandis* 9958

*Helicoverpa zea* 1096

lucerne, *Acyrtosiphon kondoi* 3485

weeds, natural enemies 2756

## wheat

Aphididae 8633

*Schizaphis graminum* 539

## Oregon

apples, orchards, Acari 4554

*Artemisia tridentata*, *Europiella carvalhoi* 11127

*Centaurea solstitialis*, natural enemies 2750

*Dendroctonus ponderosae* 11976

*Dendroctonus pseudotsugae*, predators 9540

food plants, *Fumibotys fumalis* 1183

forests, pesticides, usage 9967-9968

*Formica* 1194

## hops

fields, Phytoseiidae 12049

*Tetranychus urticae* 12049

*Juniperus*, insects 12019

pears, pesticide residues 6651

pesticides, legislation 9551

Pinopsida, *Choristoneura occidentalis* 4720, 11974

*Pseudotsuga menziesii*

*Dendroctonus pseudotsugae* 8925

insect pests 7962

Scolytidae 8994

*Senecio jacobaea*

*Longitarsus jacobaeae* 1756

natural enemies 3691

## strawberries

fields, *Neoseiulus fallacis* 9859

*Tetranychus urticae* 9859

wildlife, pesticide residues 9630

wood, Coleoptera 11041

## Pennsylvania

*Acer saccharum*, *Taeniothrips inconsequens* 2677, 10955

## apples

*Cydia pomonella* 11849

## orchards

parasitoids 11846

pesticide residues 451

*Stethorus punctum* 9838

*Platynota idaeusalis* 6635, 6640, 11846

*Echium vulgare*, *Longitarsus melanurus* 9302

*Eurosta solidaginis*, natural enemies 7257

forest trees, *Lymantria dispar* 9970, 11974

*Leptinotarsa decemlineata* 8495

*Lymantria dispar* 2183

## maize

*Deroceras reticulatum* 6454

*Diabrotica virgifera* 10713

fields, *Trichogramma nubilale* 11731

*Ostrinia nubilalis* 11731

mushrooms, Diptera 813

*Phlox*, Miridae 12054

## USA cont.

## Pennsylvania cont.

potatoes, *Leptinotarsa decemlineata* 6552, 7756

## Quercus

insecticide residues 10941

*Lymantria dispar* 6755

tomatoes, pest control 8731

Rhode Island, *Iva frutescens*, *Uroleucon ambrosiae*, predators 8972

## South Carolina

cereal grains, Coleoptera 4809

*Cicindela dorsalis* 4040

cotton, Noctuidae 11969

crops, *Nezara viridula* 4107

forest trees, *Lymantria dispar* 2653

groundnuts, Lepidoptera 6715

## kale

fields, beneficial arthropods 4511

*Plutella xylostella* 4511

maize, *Helicoverpa zea* 6458

*Mantispa viridis* 7012, 7161

pecans, orchards, *Harmonia axyridis* 4609

*Pinus taeda*, *Rhyacionia frustrana* 4733

## stored products

habitats, *Bracon hebetor* 9613

*Plodia interpunctella*, parasitoids 9613

sweet potatoes, insect pests 5482

*Tradescantia hirsuticaulis*, *Jalysus spinosus* 4768

weeds, natural enemies 2756

## South Dakota

*Anas platyrhynchos*, insecticides, effects 11612

food plants, *Diabrotica barberi* 1596

grasslands, arthropods 9742

Lepidoptera 7274

lucerne, pest control 5781

## maize

*Diabrotica barberi* 2423, 6456

*Diabrotica virgifera* 4419, 9701

wheat, Aphididae 8633

## Tennessee

*Abies*, forests, *Dasyceirus bicolor* 35

apples, arthropod pests 8751

forest trees, *Lymantria dispar* 2653

peaches, *Mesolecanium nigrofasciatum* 8751

rape, *Ceutorhynchus assimilis* 4617

water, insecticide residues 2356

## Texas

*Agrotis ipsilon* 5070

*Anastrepha ludens*, predators 8385

*Anticarsia gemmatilis* 6260

*Apis mellifera* 9514

aquatic environment, pollutants 2353

birds, insecticide residues 2327

cabbages, pest control 11812

*Capsicum annuum*, *Anthonomus eugenii* 4533

cereals, *Schizaphis graminum* 8627

*Chaetognathus* 3004

Citrus, *Aleurocanthus woglumi* 4550

## cotton

*Anthonomus grandis* 5617, 8844, 9958

parasitoids 6740

*Aphis gossypii* 9959

## fields

Araneae 4669

predatory insects 4670

*Helicoverpa zea* 4665, 4670

*Heliothis virescens* 716, 11966

*Diatraea grandiosella* 11275

*Eustilicus* 4820

Formicidae 4699

*Helicoverpa zea* 1096

*Heliothis virescens* 9584

insects 1097

## maize

*Diabrotica virgifera* 6467, 8648

*Helicoverpa zea* 8650, 9702

Noctuidae 2436

man, insecticide residues 8538

Mordellidae 11371

nontarget organisms, insecticide residues 11614

pecans, *Acrobasis nuxvorella* 11916

## USA cont.

## Texas cont.

*Pinus*, Ips 1694

*Pinus taeda*, *Dendroctonus frontalis* 9985

*Sigmodon hispidus*, insecticide residues 8540

*Solenopsis invicta* 1990, 2072, 6153

*Solenopsis invicta* x *S. richteri* 5141

## sorghum

*Contarinia sorghicola* 560, 4433

insect pests 4431

## sugarcane

*Eoreuma loftini* 6719-6720, 9926

plantations, arthropods 693

*Tapinoma melanocephalum* 6102

water, insecticide residues 6385

weeds, natural enemies 2756

## wheat

Aphididae 8633

*Schizaphis graminum* 539, 1427

## Utah

Acari, predators 650

*Artemisia tridentata*, habitats, Araneae 4780

*Cirsium arvense*, *Rhinocyllus conicus* 4786

*Drosophila pseudoobscura* 11141

forest trees, *Lymantria dispar* 9970

grasslands, habitats, Araneae 5048

lucerne, Acrididae 8681

Pinopsida, *Orgyia pseudotsugata* 8930

*Populus*, insect pests 10945

*Populus fremontii*, *Pemphigus obesinymphae* 5649

*Salix exigua*, *Rabdophaga* 7922

*Yucca kanabensis*, pollinators 1741, 8000

## Vermont

*Acer*, insect pests 5658

*Acer saccharum*, *Taeniothrips inconsequens* 2674

apples, mites 11848

*Hepialus gracilis* 3927

*Hylastor opacus* 3126

*Leptothorax longispinosus* 9414

## Virginia

*Abies fraseri*, *Dreyfusia piceae* 8927

## apples

*Panonychus ulmi* 6633

Tortricidae 10849

*Bolitotherus cornutus* 2014

*Brassica*, *Pieris rapae* 9797

broadleaves, *Lymantria dispar* 1656

*Cirsium arvense*, natural enemies 6845, 7360

*Echium vulgare*, *Longitarsus melanurus* 9302

*Euonymus japonicus*, *Unaspis euonymi* 10001

*Festuca arundinacea*, *Dolerus nitens* 8175

forest trees, *Lymantria dispar* 9970

forests, Lepidoptera 11986

*Leptinotarsa decemlineata* 10547

*Lymantria dispar* 2183, 4224-4225

## maize

fields, predatory arthropods 3437

*Mythimna unipuncta* 3437

*Phlox*, Miridae 12054

Poaceae, *Graminella nigrifrons* 10721

potatoes, *Leptinotarsa decemlineata* 9782

## Quercus

*Anisota senatoria* 7916

*Lymantria dispar* 4697-4698

*Phyllonorycter hamadryadella*, parasitoids 11353

*Silene pratensis*, pollinators 6848

*Solanum carolinense*, natural enemies 3059

trees, insect pests, damage 12025

weeds, natural enemies 2756

## Washington

## apples

arthropod pests 8757

*Cydia pomonella* 11858

Tortricidae 1538

## barley

*Diuraphis noxia* 5412



## USA cont.

- Washington cont.  
barley cont.  
fields, *Scymnus fenderi* 5412  
birds, insecticides, residues 2291  
*Camponotus* 1988  
*Cirsium vulgare*, *Platyptilia*  
*carduidactyla* 5725  
*Crataegus*, *Rhagoletis pomonella*,  
parasitoids 2746  
crops, *Phorodon humuli* 11007  
*Dolichovespula norvegicoides* 3939  
food plants  
*Enarmonia formosana* 1547  
*Fumibotys fumalis* 1183  
*Papilio zelicaon* 11316  
grapes, pest control 3545  
grasses, *Tipula paludosa* 5450  
hops, *Phorodon humuli*, predators  
6834  
insects 8368  
Isoptera 5184  
Neuroptera 2013  
ornamental plants, pest control 3663  
pears  
arthropod pests 6652  
*Cacopsylla pyricola* 4563, 8766  
*Populus trichocarpa*, insect pests  
7919  
raspberries  
insect pests 3542  
pest control 4570  
small fruits, pest control 1550, 3541  
soil, insecticide residues 9645  
surface water, pesticide residues 499  
wood, Coleoptera 11041
- West Virginia  
apples  
arthropods 651  
*Eriosoma lanigerum* 4555, 9835  
broadleaves  
forests, Vespidae 7911  
*Lymantria dispar* 1656  
food plants, *Formica exsectoides* 580  
forest trees, *Lymantria dispar* 5642,  
9970  
forests, arthropods 7594  
*Hyalastes opacus* 3126  
lucerne  
fields, beneficial insects 8682  
*Hypera postica* 8682  
*Peromyscus leucopus*, insecticides,  
effects 9605  
*Phlox*, Miridae 12054
- Western States of USA, rangelands,  
Acrididae 11753
- Wisconsin  
apples, orchards, *Drosophila* 9833  
*Diabrotica*, pest control 2316  
fishes, insecticide residues 7616,  
11637  
*Ips pini* 11976  
*Larus argentatus*, insecticide residues  
4306  
*Lasius neoniger* 10363  
maize, commodities, habitats,  
*Lycotocoris campestris* 9011  
*Nycticorax nycticorax*, insecticide res-  
idues 10626  
Nymphalidae 7187  
*Pinus*  
*Hylobius* 8912  
*Ips pini* 10966  
*Neodiprion* 12010  
*Pinus banksiana*, *Choristoneura pinus*  
1688  
*Pinus resinosa*, *Ips pini*, natural ene-  
mies 7953  
*Pinus strobus*, *Pissodes strobi* 2692  
potatoes, integrated pest management  
7762  
*Vaccinium*, *Chrysoteuchia topiaria*  
3544
- Wyoming  
*Artemisia tridentata*, *Europiella*  
*carvalhoi* 11127  
Coleoptera 4038  
*Hypodryas gillettii* 11289  
meadows, *Hypodryas gillettii* 173  
*Pogonomyrmex occidentalis* 8395

## USA cont.

- Wyoming cont.  
rangelands  
arthropods 5446  
insect pests 5448  
*Reticulitermes tibialis* 8395
- Uscana lariophaga*  
biology  
behaviour 10045  
environmental factors 10277  
hosts  
Bruchidae 10045  
*Callosobruchus maculatus* 10277  
Niger 10045
- Uscanoidea iperterebrata*  
Brazil 4838  
taxonomy, new species 4838
- Uscanoidea nigriventris*, morphology 4838
- Uscanoidea silvestrii*  
hosts, Membracidae 4838  
South America 4838  
taxonomy, new species 4838
- Usnea filipendula*, extracts, antifeedants,  
*Spodoptera littoralis* 8610
- Usnea lapponica*, extracts, antifeedants,  
*Spodoptera littoralis* 8610
- USSR (see also individual republics of the  
former USSR)  
*Alnus incana*, *Oncopsis tsejensis* 1840  
cotton, integrated pest management,  
reviews 5603, 5607  
deserts, arthropods 2012  
*Oncopsis* 1840
- Ustilago violacea*, vectors, insects 6848
- Uta stansburiana*, insecticides, residues  
11614
- Utetheisa ornatrix*  
biochemistry, pheromones 1889  
biology, reproduction 69  
physiology, reproduction 9201  
predators 2000
- Uzbekistan  
*Chorthippus* 5123  
fruit vegetables, *Trialeurodes vaporari-*  
*orum* 11823  
*Helicoverpa armigera* 9257  
*Ulmus minor*, Coleoptera 746
- Vaccinium*  
*Acrobasis vaccinii*, USA 7061  
*Chrysoteuchia topiaria*, Wisconsin 3544  
*Colias* 3030  
*Croesia curvalana*, Nova Scotia 2566  
fields, parasitoids, British Columbia 9855  
insecticides, residues 3543, 11675  
pest control  
Canada 8769  
USA 8769  
Washington 1550  
*Rhagoletis mendax* 9857  
*Rhopobota naevana*, British Columbia  
9855
- Vaccinium angustifolium*  
*Hemadas nubilipennis*, galls 4572  
*Rhagoletis mendax*, Canada 9856
- Vaccinium arboreum*, *Rhagoletis* 9857
- Vaccinium corymbosum*  
*Choristoneura rosaceana* 6008  
pesticides, residues 5756
- Vaccinium macrocarpon*, pest control, North  
America 8770
- Vaccinium myrtilloides*, *Colias* 3030
- Vaccinium myrtillus*, *Hypera crassalis* 2859
- Vaccinium vacillans*, Lepidoptera, Virginia  
11986
- Vairimorpha*, hosts, *Plutella xylostella* 996
- Vairimorpha necatrix*, hosts, *Helicoverpa*  
*zea* 5209
- Valeric acid, attractants, *Macrodactylus*  
11730
- Validoxylamine, effects, *Mamestra brassi-*  
*cae* 9575
- Valine, effects, *Bactrocera cucurbitae* 7029
- Vamidothion  
effects, fishes 1352  
residues, horticultural crops, commodities  
5740  
resistance, *Eriosoma lanigerum* 8764
- Vanellus indicus*, insecticides, residues 5323
- Vanessa atalanta*  
biology, behaviour 7195  
Iowa 7195

## Vanessa indica

- distribution, Europe 3114  
*Urtica morifolia*, Europe 3114
- Vanessa itea* (see *Bassaritis itea*)
- Vanonus balteatus*  
biology 6032  
Mexico 6032
- Varroa jacobsoni*  
acaricides, resistance 2108, 8509  
*Apis mellifera*, resistance 4096  
Asia 8360, 11430  
Austria 1221  
biology  
behaviour 304, 3947, 4089, 5379,  
7352  
development 11426  
life history 11443  
reproduction 3225, 3798, 8388  
California 7353, 9449  
control 2117, 3234, 9449, 11430  
chemical control 4123, 7353, 7367,  
8509, 10381, 11448  
integrated control 1287  
trapping 7352  
damage, assessment 11437  
ecology, population dynamics 7353,  
10376  
essential oils, toxicity 8571  
*Galleria mellonella*, interactions 11437  
hosts  
*Apis* 3234, 8359, 11430, 11443  
*Apis mellifera* 296, 304, 1221, 1287,  
2108, 2117, 3225, 3798, 3947,  
4089, 4096, 4123, 7353, 8360,  
8388, 8399, 8509, 8571, 9430,  
9448-9449, 10376, 10381,  
10605, 11426, 11448  
hydrocarbons, attractants 5379  
Italy 2108, 2117, 8509  
Michigan 11448  
Netherlands 7352, 8388  
physiology, embryonic development 5846  
Poland 10381  
Switzerland 1287  
UK 11426  
USA 8399
- Varroa sinhai*  
Asia 3790  
hosts, *Apis florea* 3790  
morphology 3790
- Varroidae, biology, embryonic development  
1866
- Vasates oldfieldi*, taxonomy, synonyms, *Eri-*  
*ophyes lionotus* 3727
- Vegetable marrows (see Marrows)
- Vegetable oils  
control, *Acarapis woodi*, *Apis mellifera*  
4108  
effects, nuclear polyhedrosis viruses 7433
- Vegetables  
Aphididae, Shanghai 8498  
arthropod pests  
economic thresholds 1298  
Poland 1514  
arthropods, Sichuan 9349  
*Bactrocera dorsalis* 9350  
*Bactrocera kandiensis*, Sri Lanka 9894  
*Bactrocera occipitalis*, South East Asia  
9893  
*Bactrocera papayae* 9351  
*Bactrocera philippinensis*, Philippines  
9892  
*Bactrocera pyrifoliae*, Thailand 9898  
commodities  
insect pests, control 4799  
insecticides, residues 2322, 3709,  
4805-4806, 11396  
pest control 2778  
Drosophilidae, Honshu 6038  
*Frankliniella occidentalis*, Europe 7167  
fumigants, residues, determination 9398  
insect pests  
California 4664  
control  
cultural control 615  
reviews 9532  
France 1274  
insecticides, residues, analysis 10331  
integrated pest management 6915  
Indonesia 5265  
pest control 6137, 12087



**Vegetables** *cont.*

- pest control *cont.*
  - conferences 6908
  - Germany 3317
  - Indonesia 5290
  - New York 6908
  - Poland 1298
  - West Africa 9032
- pest resistance 1412
- pesticides, residues 468, 2325, 9394
- pests 11063
  - Canada, books 6925
- Plutella xylostella*, Guangdong 10548
- Tetranychus urticae*
  - damage 1515
  - Poland 1515
- Vegetation**, pesticides, residues 5332
- Velarifictorus aspersus*
  - biology, environmental factors 10274
  - Shandong 10274
- Velarifictorus micada*
  - biology, environmental factors 10274
  - Shandong 10274
- Velocitermes**
  - biology, development 1977
  - physiology, glands 1910
- Venezuela**
  - Acromyrmex* 2882
  - Arecaceae
    - Brassolis sophorae* 5683
    - Rhynchophorus palmarum* 7862
  - bananas
    - Cosmopolites sordidus* 1564
    - plantations, *Hololepta quadridentata* 1564
  - cabbages, *Plutella xylostella* 619
  - Cicindelidae 7271
  - cocoa, insects 5597
  - Curculionidae 5839
  - economic thresholds 7497
  - field crops, *Thrips palmi* 624
  - fishes, insecticide residues 7579, 11668
  - food plants
    - Myzus persicae* 4383
    - Thrips palmi* 5462
  - forest trees, insect pests 8862
  - Ischnumonidae 250
  - insect pests 11461
  - maize, arthropod pests 7675
  - melons, *Anastrepha grandis* 8796
  - oil palms, *Rhynchophorus palmarum* 5574
  - Passiflora*, Notodontidae 4896
  - Phaseolus vulgaris*
    - Aphididae 5463
    - Ledesmodina auricollis* 7737
  - Pinus caribaea*
    - Atta laevigata* 6786
    - forests, *Atta laevigata* 8914
  - potatoes
    - insect pests 7752
    - Myzus persicae* 7751
  - sapodillas, *Augocoris gomesii* 7855
  - savanna woodlands, *Atta laevigata* 9308
  - Sinoxylon anale* 7270
  - sorghum, *Contarinia sorghicola* 1448
  - Sorghum halepense*, *Contarinia sorghicola*, parasitoids 1466
  - sugarcane, *Myelobia atroparsellus* 7876
  - sweet potatoes, *Cylas formicarius elegantulus* 8716
  - tomatoes
    - Bemisia tabaci* 2534, 4521
    - insect pests 7784
    - Liriomyza sativae* 4520
    - Neoleucinodes elegantalis* 1517
    - pest control 7786
    - Sitotroga cerealella* 4522
  - Veronicellidae 1241
- Venoms**
  - Chelonus*, biochemistry, enzymes 10165
  - effects, *Acyrtosiphon pisum* 11566
  - Nephila* 4094
- Venturia canescens**
  - biology
    - behaviour 3964, 3966
    - development 3224, 9143, 9145
  - ecology, host-seeking behaviour 7345
  - hosts
    - Ephestia kuehniella* 10367
  - Lepidoptera 3964, 3966

**Venturia canescens** *cont.*

- hosts *cont.*
  - Plodia interpunctella* 3224, 8387, 9143
  - Pyrilidae 7345, 9145
- Venturia jordanae**
  - hosts, *Maliarpha separatella* 1212
  - rice, habitats, Africa 1212
  - taxonomy, new species 1212
- Veratridine**, analogues, effects, insects 10345
- Veratrole**, mixtures, effects, *Schistocerca gregaria* 9179
- Verbascum densiflorum**, Araneae, Switzerland 2759
- Verbena officinalis**, insecticides, residues 7983
- Cis-verbenol**, pheromones, *Ips typographus* 8924
- Verbenone**, mixtures, attractants, *Dendroctonus brevicornis* 7936
- Verbesina enceloides**, *Frankliniella occidentalis* 6263
- Vernonia cinerera**, *Spilostethus hospes*, India 8622
- Veronica**, *Myzus cerasi* 5108
- Veronica hederifolia**, insects, pollination 5726
- Veronica persica**, insects, pollination 5726
- Veronicellidae**, distribution, Venezuela 1241
- Vertebrates**, control, Acrididae, evaluation 6144
- Verticillium bulbillosum**, *Onychiurus armatus*, interactions 1072
- Verticillium lecanii**
  - biochemistry, enzymes 2169, 4179
  - control
    - arthropod pests 11900
    - Bemisia tabaci*, greenhouse crops 4759
    - Frankliniella occidentalis* 7486
    - Hemiptera, cucumbers 1525
    - Trialeurodes vaporariorum*, tomatoes 6607
  - culture techniques 372, 4189
  - effects, rodents 8433
  - germination 1249
  - hosts
    - Aleyrodidae 6246
    - Bemisia argentifolii* 8443
    - Diuraphis noxia* 5218
    - Frankliniella occidentalis* 4184, 10445
    - Hemiptera 7429
    - Lytta nuttalli* 5218
    - Melanoplus sanguinipes* 4179
    - Myzus persicae* 4175
    - Odontotermes obesus* 6243
    - Taeniothrips inconsequens* 5658
    - Zyginidia pullula* 2169
  - pesticides, toxicity 7429
  - toxins, effects, insect pests 1260
  - viability 7428
- Vespa**, biology, behaviour, models 3048
- Vespa affinis**, physiology 6159
- Vespa auraria**
  - biology 2838
  - taxonomy 2838
- Vespa bicolor**
  - biology 2838
  - taxonomy 2838
- Vespa crabro**
  - biochemistry, chemical composition 6198
  - biology, behaviour 3039
  - Georgia 6198
  - UK 3039
- Vespa orientalis**
  - Israel 8383
  - parasitoids 8383
- Vespa similima**
  - biology 2838
  - taxonomy 2838
- Vespa velutina**
  - biology 2838
  - taxonomy 2838
- Vespa vivax**
  - biology 2838
  - taxonomy 2838
- Vespamima**
  - Pinus*
    - Arizona 10963

**Vespamima** *cont.*

- Pinus* *cont.*
  - varietal reactions 10963
- Vespidae**
  - biochemistry, venoms 9175
  - biology, sexual dimorphism 3026
  - broadleaves, forests, West Virginia 7911
  - Colombia 3197
  - ecology, habitats 11346
  - insecticides, effects 7911
  - Mato Grosso 11346
  - monitoring, traps 7911
  - morphology 3197
  - venom glands 3783
  - Polygonum thunbergii*
    - Honshu 5727
    - pollination 5727
  - prey, insect pests 6191
  - Sao Paulo 3783
- Vespoidea**, evolution 2867, 9107
- Vespula**, biology, behaviour, models 3048
- Vespula germanica**
  - Australia 1203
  - biology
    - behaviour 3937, 4386, 7849
    - development 1203
  - Chile 3937
  - Citrus*, habitats, Greece 7849
  - distribution, New Zealand 3119
  - Nothofagus*, habitats, New Zealand 4713
  - orchards, habitats, Greece 4386
  - prey, *Ceratitis capitata* 4386, 7849
  - venoms, toxicity, *Helicoverpa zea* 11233
  - Vespula vulgaris*, interactions 4713
- Vespula maculifrons**, pheromones 10172
- Vespula squamosa**, pheromones 10172
- Vespula vidua**
  - biology, behaviour 6171
  - prey, *Manduca sexta* 6171
- Vespula vulgaris**
  - Austria 966
  - distribution, New Zealand 3119
  - Nothofagus*, habitats, New Zealand 4713
  - physiology, metabolism 966
  - Vespula germanica*, interactions 4713
- Vetch** (*see* *Vicia*)
- Viburnum dilatatum**, *Pidonia tsuyukii*, Honshu 5707
- Viburnum tinus**
  - Acari, Victoria 1639
  - habitats, Bdellidae, Italy 12027
  - insect pests, Italy 12027
  - Pyrrhalta viburni*, Italy 12027
- Vicia**
  - Acari
    - damage 11704
    - varietal reactions 11704
  - Eutrichapion mystriophorum*, Europe 6971
- Vicia benghalensis**, extracts, effects, *Bruchus pisorum* 4466
- Vicia faba** (*see* *Faba* beans)
- Vicia sativa**, *Halotydeus destructor* 3487
- Vicia villosa**, *Bradysia*, damage 8670
- Vicia villosa** subsp. *varia*, *Bradysia*, damage 8670
- Vietnam**
  - Coleoptera 6942
  - Formicidae 5099
  - insecticides, usage 7702
  - rice
    - Delphacidae 7697
    - insect pests 7702
    - Nilaparvata lugens* 7705
    - soil, insecticide residues 2386
    - soyabeans, Noctuidae 9752
- Vigna angularis**
  - books 3726
  - commodities
    - Callosobruchus chinensis* 4811, 6887
    - Callosobruchus maculatus* 3969, 11047
  - extracts, effects, *Callosobruchus chinensis* 4811
- Vigna angularis** var. *dainagon*, *Callosobruchus chinensis* 2009-2010
- Vigna mungo**
  - books 2824
  - commodities
    - Callosobruchus maculatus* 3711, 10038, 11047



**Vigna mungo** *cont.*

- commodities *cont.*
  - Callosobruchus maculatus* *cont.*
    - resistance 3711
- intercropping, pigeon peas, effects, insect pests 11781
- Madurasia obscura*, Tamil Nadu 6890
- mites 2824
- Riptortus pedestris*, Uttar Pradesh 10778
- Spodoptera litura*, Uttar Pradesh 6406

**Vigna radiata**

- Acrididae, Tamil Nadu 6143
- Bemisia tabaci* 5468
  - Assam 9766, 11789
  - India 5470
  - Indonesia 6529
- books 2824
- Callosobruchus chinensis*, damage 2774
- commodities
  - Callosobruchus* 11044
  - Callosobruchus chinensis* 4794
  - Callosobruchus maculatus* 834, 1766, 3969, 11047
- Coleoptera 4795
- insect pests
  - control, chemical control 11786
  - Delhi 11786
  - Uttar Pradesh 10780
- insecticides, residues 9768, 10779
- intercropping, pigeon peas, effects, insect pests 11781
- mites 2824
- odours, effects, *Eupelmus vuillei* 4482
- Spilartia obliqua* 2893
- Spodoptera litura* 9908
- Tenebrionidae, Queensland 5396
- Thysanoptera, Indian Punjab 8700

**Vigna subterranea**

- commodities
  - Callosobruchus subinnotatus* 4803, 9019
  - resistance 9004
  - varietal susceptibility 12072

**Vigna unguiculata** (see Cowpeas)**Vigna vexillata**, commodities, *Callosobruchus maculatus*, resistance 2776**Villa manillae**

- Chile 9086
- hosts, *Leptotes trigemmatum* 9086
- taxonomy, new species 9086

**Vineyards**

- Acari, Hungary 7837
- Anagrus atomus*, Italy 6666
- habitats
  - Acari, Yugoslavia 1531
  - Kampidromus aberrans*, Italy 1560
  - predatory arthropods, Germany 5540
  - Typhlodromus pyri* 4124
  - Kampidromus aberrans*, Italy 8775
  - Lobesia botrana*, Italy 9874
  - predatory insects, Germany 4577
  - predatory mites, Germany 8774
  - Trichogramma evanescens*, Egypt 11876
  - Troxylon impressum*, Switzerland 12071
  - Typhlodromus*, Hungary 1559
  - Typhlodromus pyri*, France 1558

**Vinsonia stellifera**

- distribution, Australia 5800
- taxonomy 5800

**Vinyl chlorides**, antifeedants, *Spodoptera litoralis* 2735**4-Vinylveratrole**, mixtures, effects, *Schistocerca gregaria* 9179**Viola arvensis**, Syrphidae, Switzerland 2759**Viola verecunda**, Formicidae, interactions 6155**Viola wittrockiana**, Taeniopoda eques, Arizona 8259**Virachola isocrates** (see *Deudorix isocrates*)**Viral insecticides** (see also Microbial pesticides)

- control, stored products pests 8016
- resistance, *Anticarsia gemmatilis* 5245
- reviews 11545

**Viruses** (see also Insect viruses)

- vectors, insects 10458

**Vitacea polistiformis**

- control 5542
- physical control 9866

**Vitacea polistiformis** *cont.*

- grapes
  - damage 4578
  - Georgia 9866
  - Mississippi 4578
  - USA 5542
- monitoring, traps 4578
- Viteus vitifoliae**
  - biotypes 11881
  - control 4576
  - genetics 9877
- grapes
  - California 9878, 11881
  - Germany 9864
  - resistance 2572, 9865, 9877-9878
  - Switzerland 4576
  - varietal susceptibility 9864
- Vitis vinifera* × *V. labrusca*, damage 11886
- Vitex**, *Aleuroclava*, Tamil Nadu 21
- Vitex negundo**
  - extracts
    - control, *Leptocorisa acuta*, rice 3455
    - toxicity
      - Callosobruchus chinensis* 3707
      - Plutella xylostella* 11593
  - insects
    - Andhra Pradesh 5684
    - pollination 5684

**Vitis**

- Aleurocanthus woglumi* 10046
- Thrips kono* 919
- Vitis labrusca* (see Grapes)
- Vitis rotundifolia* (see Grapes)
- Vitis vinifera* (see Grapes)
- Vitis vinifera* (dried fruit) (see Raisins)
- Vitis vinifera* × *V. labrusca*, *Viteus vitifoliae*, damage 11886

**Vitula edmandae serratilineola**, Washington 3939**Volatile compounds**, attractants, *Diabrotica barberi* 6456**Vydate** (see Oxamyl)**Wackekitylenchus bembidi**, morphology, integument 10452**Wackekitylenchus boviemi**, morphology, integument 10452**Wahlgreniella nervata**

- biology 7971
- morphology 7971
- Rosa*, Argentina 7971

**Walnuts** (*Juglans regia*)

- Acari
  - galls 10950
  - Uttar Pradesh 10950
- Amyelois transistella*
  - California 4608
  - damage 4608
- Fleutiauxia armata*, China 6949
- habitats, *Allothrombium pulvinum*, Iran 9352
- Locastra muscosalis*, Korea Republic 6701
- Paraseiulella profitai*, California 3762
- Plodia interpunctella* 10059
- Rhagoletis completa*, California 4607
- Tribolium castaneum* 8890

**Walshomyia**

- Juniperus*
  - galls 12019
  - USA 12019

**Washing**, control, insect pests, horticultural crops, commodities 4799**Washingtonia robusta**, *Metamasius hemipterus sericeus*, Florida 2239**Wasmannia**, pastures, Colombia 5457**Wasmannia auropunctata** (see *Ochetomyrmex auropunctatus*)**Wasps** (see Vespoidea)**Waste land**, Cryptostigmata, Poland 9340**Waste water**

- effects, *Hypera postica* 9747
- pesticides, residues 7612

**Water**

- acaricides, residues 10639
- growth regulators
  - degradation 5278, 5310
  - residues 4331
- insecticides
  - degradation 501, 1377, 2377, 3392, 4231, 9602

**Water** *cont.*

- insecticides *cont.*
  - determination 4069
  - removal 3150
  - reports 2805
  - residues 494, 507, 509, 2047, 2066, 2349, 2359, 2369, 2373-2375, 2379-2380, 3517, 4328, 5361, 5685, 6385, 6387, 6389, 6392, 8551, 10633, 10648, 10654, 10815, 11657, 11661, 11665, 11672, 11674, 11738, 12096-12097
  - analysis 3396, 10332
  - decontamination 488
  - detection 2061, 11678
  - extraction 10649, 11395
  - runoff 9634
- organochlorine compounds, residues 1383, 3390
- organophosphorus compounds, degradation 4240
- pesticides
  - degradation 9642, 10574, 10638
  - determination 4067, 7599
  - movement, models 4063
  - removal 6134
  - residues 486, 492, 505, 508, 510, 783, 4335, 5107, 5292, 6379, 6386, 7620, 9638, 9647, 11664
  - analysis 3154, 4234
  - detection 10663
  - legislation 11660

**Watercress** (*Nasturtium officinale*)

- arthropod pests, control, chemical control 11819

*Neolema ovalis* 917*Plutella xylostella*, China 3420**Watermelon mosaic 2 potyvirus**

- vectors
  - Aphididae 4537
  - Aphidoidea 10891
- Watermelon mosaic potyvirus**, vectors, Aphidoidea 11910
- Watermelon mosaic 2 potyvirus**, vectors, *Aphis illinoisensis* 6668
- Watermelons** (*Citrullus lanatus*)
  - Aphididae, Florida 4537
  - Aphis gossypii* 2401
  - Italy 11833
  - arthropod pests, Honshu 2576
  - Bactrocera depressa*
    - damage 6599
    - Korea Republic 6599
  - Bactrocera tau* 2540
  - Bemisia tabaci*, Costa Rica 629
  - extracts, attractants, *Aulacophora foveicollis* 638
  - fields, predatory arthropods, Honshu 2576
  - Frankliniella fusca*
    - damage 10834
    - Florida 10834
  - habitats, predators, Italy 5174
  - insect pests 7781
  - Tetranychus cinnabarinus*, varietal susceptibility 1526

*Frankliniella fusca*

- damage 10834
- Florida 10834

## habitats, predators, Italy 5174

## insect pests 7781

*Tetranychus cinnabarinus*, varietal susceptibility 1526**Waterstoniella keralensis**

- Ficus talboti*
  - Kerala 9097
  - pollination 9097
- taxonomy, new species 9097

**Waxes**, effects, *Atta sexdens* 9999**Waxiella**

- cocoa, Ghana 4645
- Formicidae 4645

**Weed control**

- effects
  - Carabidae 10385
  - insects 11017
- nontarget effects, *Melanogromyza sojae* 10755

**Weeds**

- Bemisia tabaci*, Mexico 8779
- Caliothrips indicus*, interactions 7873
- Chrysopidae, Switzerland 2759
- Cicadulina chinai*, Egypt 10720
- control
  - biological control 531, 5719, 6273, 11026, 11033-11036
  - books 2215



- Weeds cont.**  
 effects, *Diabrotica* 2433  
 habitats  
   Coccinellidae, Yugoslavia 6166  
   predatory mites, Utah 650  
   Syrphidae, UK 832  
 Hemiptera, Pakistan 631  
 Heteroptera, Yugoslavia 11842  
 insects  
   Andaman and Nicobar Islands 1747  
   pollination 2761  
*Myzus persicae*, Idaho 4175  
 natural enemies  
   Idaho 11026  
   New Zealand 9445  
*Thrips pseudosflavus* 919  
 Thysanoptera, North Carolina 9279  
*Zygogramma bicolorata*, India 1749  
**Weevils** (see Apionidae; Curculionidae)  
*Weigela floribunda*, *Pidonia tsuyukii*, Hon-shu 5707  
*Weinmannia racemosa*, *Neeriochiton clareae*, New Zealand 4870  
**Welsh onions**  
 arthropod pests 883  
 books 883  
*Spodoptera exigua* 7636  
*Wesmaelius subnebulosus*, Slovakia 11363  
**West Africa**  
 crops, pest control 9032  
 Rhyparochrominae 11128  
**Western hemlock** (see *Tsuga heterophylla*)  
**Western larch** (see *Larix occidentalis*)  
**Wet storage**, control, Coleoptera, *Pinus taeda*, wood 8014  
**Wetlands**, pesticides, pollutants, reviews 2357  
**Whales**  
 organochlorine compounds, effects 3381  
 pesticides, residues 472  
**Wheat** (*Triticum aestivum* and *T. durum*)  
 Acari  
   damage 11704  
   variatal reactions 11704  
*Aceria tulipae*, resistance 1421  
 Acrididae 3422  
*Acronicta rumicis*, Jiangsu 7635  
*Aiolopus thalassinus tamulus*, Gujarat 5409  
 Aphididae 5404, 7670  
   economic thresholds 2412, 3430, 10690  
   Europe 2405  
   Germany 1420, 1423, 1428, 3423, 7657, 8631-8632, 11722  
   Henan 10690  
   Irish Republic 11718  
   Poland 3429  
   resistance 3423, 6436, 9684  
   Shandong 3433  
   South Africa 542  
   Syria 6437  
   UK 543, 7656, 10691  
   USA 8633  
   yield losses 545, 10690  
 Aphidoidea 10700  
   resistance 5405  
   UK 5410  
 arthropod pests, North America 6439  
*Bryobia praetiosa*  
   Argentina 1424  
   damage 1424  
*Cathartus quadricollis* 836  
 Cecidomyiidae  
   Czech Republic 6440, 6444  
   Poland 3428  
   resistance 3428, 6440  
   Shaanxi 7671  
*Cephus cinctus*, resistance 6432  
*Chinomis haywardi* 3425  
*Collaria oleosa*, Federal District 9672  
 commodities  
   Acari, Italy 6879  
   arthropod pests 850  
   UK 4802  
*Cheletomimus cambio*, Pakistan 8059  
 Coleoptera 2785, 4801, 6864, 6892, 11043  
   damage 10032, 10056  
   Georgia 9008  
   Indian Punjab 6868
- Wheat cont.**  
 commodities cont.  
   fumigants, residues 6881, 12070  
   habitats, *Cheyletus eruditus*, UK 4802  
   insect pests 840  
     Costa Rica 3704  
     Kansas 4808, 6871  
   insecticides, residues 4797, 5747-5748, 5750  
*Mayetiola destructor* 6873  
   pesticides, residues 7572, 12085  
*Rhyzopertha dominica* 1769, 3799, 9002, 10037-10038  
*Sitophilus granarius* 6896, 10058  
   varietal reactions 12083  
*Sitophilus oryzae* 10053  
   Bangladesh 3705  
*Sitophilus zeamais* 6901  
 stored products pests 6880  
   Manitoba 9013  
   Pakistan 9007, 11049  
*Tribolium castaneum* 9018  
*Tyrophagus putrescentiae* 852  
*Delia coarctata*  
   Germany 1430, 6438  
   UK 534  
*Deroceras reticulatum*, UK 10807  
 Diptera, Germany 541  
*Diuraphis noxia* 6176, 6421, 6441, 9674, 9680, 11716  
   Alberta 6434  
   Australia 8637  
   Colorado 11725  
   France 9676, 11717  
   Kansas 9685  
   resistance 2415, 3431, 4395, 6449, 7651, 8635, 9685  
   USA 6433  
   varietal reactions 9676  
*Elasmolomus sordidus* 8615  
*Eurygaster austriaca*  
   resistance 1426  
   Yugoslavia 1426  
*Eurygaster integriceps*  
   damage 537  
   Ukraine 537  
 extracts  
   antifeedants  
     Aphididae 6436  
     *Nilaparvata lugens* 8614  
   attractants, *Sitophilus zeamais* 10054  
   effects  
     *Brevicoryne brassicae* 816  
     Coleoptera 9163  
 fields  
   Aphidius *colemanni*, Colorado 4401  
   Aphidius *picipes*, Shandong 9677  
 arthropods  
   Germany 5401  
   UK 5410, 10691  
 beneficial arthropods, UK 4409  
 beneficial insects  
   France 11717  
   Germany 2130, 9675  
   Nei Menggu 3095  
   South Africa 542  
   Syria 6437  
   UK 7496  
 Braconidae, Irish Republic 11718  
 Carabidae  
   Finland 7644  
   Germany 7658  
*Centromerus minutissimus*, UK 5  
*Coccinella septempunctata*  
   Henan 10690  
   Shandong 7667  
   UK 543, 10697  
*Gastrophysa polygoni*, UK 10696  
 Hymenoptera, Colorado 11725  
 insects  
   Germany 1428  
   Syria 3426  
 Linyphiidae  
   Netherlands 5407  
   UK 7336  
 predatory arthropods  
   China 256  
   Finland 10693  
   Germany 1224  
   Switzerland 9678  
   UK 4408
- Wheat cont.**  
 fields cont.  
   predatory insects, Germany 7657, 7663, 8631  
   Syrphidae, Germany 8632  
 flours, *Tribolium castaneum* 8022  
 glucosides, Aphididae, effects 5406  
 habitats, *Coccinella septempunctata*, Michigan 5392  
*Helicoverpa armigera*  
   China 8630  
   damage 2414, 8630  
   Hebei 412, 10694  
   Zhejiang 10688  
 insect pests  
   Argentina 7648  
   damage 4398  
   Estonia 10695  
   fertilizers, effects 1425  
   Georgia 4398, 9670  
   Germany 2130, 2324, 3424, 8638  
   Italy 2412  
   Nei Menggu 3095  
   New Zealand 1787  
   resistance 2407, 3813, 6445, 6450  
   Saudi Arabia 5259  
   Sweden 1300  
   Syria 11714  
   UK 4409  
   Ukraine 11724  
   Yugoslavia 1425  
 insecticides  
   effects 3434, 7666, 8629  
   residues 468  
   usage 8628  
 integrated pest management, North America 6439  
 Isoptera  
   Haryana 7666  
   Uttar Pradesh 8813  
*Maladera*, Indian Punjab 9673  
*Mayetiola destructor*  
   damage 6446, 9667  
   Morocco 5403  
   resistance 2416, 4402, 6435, 7664, 8634, 9683, 9687  
   Spain 6429, 6446-6448  
   Tunisia 9667  
   USA 4402, 6435, 9687  
*Melanoplus sanguinipes* 8177  
*Metopolophium dirhodum* 540, 7662  
   Beijing 10689  
   resistance 4404  
*Mythimna separata*  
   China 256  
   Gujarat 5408  
   Madhya Pradesh 538  
   Shanghai 6442  
   yield losses 6442  
 Noctuidae  
   economic thresholds 10917  
   Shandong 10917  
   yield losses 10917  
*Nysius huttoni*  
   damage 3432  
   New Zealand 3432  
*Opomyza florum*, UK 7652  
*Oscinella*, resistance 2413  
*Oulema*  
   Czech Republic 10698  
   damage 10698, 11721  
   economic thresholds 11721  
   Poland 11721  
*Penthaeus major*, Henan 9681  
 pest control 12098  
   reports 860  
   Sweden 2410  
 pest resistance 6283  
 pesticides, residues 1388  
*Pleonomus canaliculatus*, yield losses 7669  
*Psammotettix striatus*, France 10699  
*Rhipidothrips flavus*, Turkey 1147  
*Rhopalosiphum padi* 544, 9329  
   France 7640  
   Ontario 6007  
*Rhopalosiphum rufiabdominalis*, Indian Punjab 7665  
*Schizaphis graminum* 4400  
   Brazil 9682  
   damage 4406, 6424



- Syzygium cumini**  
insect pests, Uttar Pradesh 9662  
*Poecilocus pictus* 2403
- Tabebuia chrysotricha**, insects, Sao Paulo 8358
- Tabebuia ochracea**, insect pests, Minas Gerais 3647
- Tachardiaphagus tachardiae**  
*Butea monosperma*, habitats, Bihar 11431  
ecology, population dynamics 11431  
hosts, *Kerria lacca* 11431
- Tachardiella trilobata**, taxonomy, to *Austrotachardiella* 6671
- Tachigali myrmecophila**  
*Pseudomyrmex concolor*  
Amazonas 2683  
interactions 2683
- Tachinidae**  
*Ailanthus*, forests, India 2673  
biology 388  
control, Lepidoptera 388  
ecology 1162, 4677  
fauna, Germany 1162  
forests, Costa Rica 4677  
hosts  
*Atteva fabriciella* 2673  
insects 4677  
*Lemyra* 700  
*Neoleucinodes elegantalis* 3565  
*Phyllophaga anxia* 302  
*Tibraca limbativentris* 9725  
*Trypoxylon rogenhoferi* 9264  
Quebec 302
- Tachinus**, taxonomy, to *Nitidotachinus* 1798
- Tachycineta bicolor**, insecticides, residues 10655
- Tachypleus tridentatus**, pesticides, residues 8558
- Tachyporus**  
biology, behaviour 4408  
prey  
Aphididae 5161  
*Sitobion avenae* 4408  
wheat, fields, UK 4408
- Tachyporus hypnorum**  
barley, fields, Germany 10702  
fungicides, effects 10702  
insecticides, toxicity 4308, 10609  
prey, Aphididae 5161  
UK 4308
- Tachyporus obtusus**, prey, Aphididae 5161
- Tachysphex**  
biology 4852  
New Zealand 4852  
Sri Lanka 6986  
taxonomy 4852, 6986
- Tachytes**, taxonomy 1816
- Tadius erirhinoides**, distribution, Thailand 12040
- Taeniopoda eques**  
biochemistry, defensive secretions 2921  
biology, behaviour 2921, 5059, 8259  
food plants, Arizona 8259
- Taeniothrips inconsequens**  
*Acer*, Vermont 5658  
*Acer saccharum*  
damage 2674  
Pennsylvania 2677, 10955  
Vermont 2674  
distribution 1150  
ecology, distribution 10955  
food plants 1150  
pathogens 5658
- Taeniothrips meridionalis**  
biology 1548  
control, chemical control 1548  
peaches, Italy 1548
- Taeniothrips vulgatissimus**, grasslands, Poland 8672
- Tagetes erecta**, *Helicoverpa armigera*, India 1521
- Tagetes minuta**, extracts, toxicity, *Zabrotes subfasciatus* 9010
- Tagetes patula**, *Bemisia tabaci* 3988
- Tagosodes cubanus**  
parasitoids 3470  
rice, Colombia 3470  
taxonomy 2862
- Tagosodes orizicolus**  
control  
biological control 11742
- Tagosodes orizicolus cont.**  
control cont.  
integrated control 9724  
parasitoids 3470  
pesticides, toxicity 4251  
predators 11742  
rice  
Colombia 3470, 9724  
damage 2862  
symbionts, interactions 992  
taxonomy 2862
- Taiwan**  
*Lobesia* 5092  
*Agrilus planipennis* 11133  
*Amiota* 6987  
*Ascogaster* 11112  
*Bactrocera cucurbitae* 3308  
*Bambusa multiplex*, *Lepidomyctides nagaii* 6836  
*Bombyx mori* 4150  
cabbages, *Plutella xylostella*, parasitoids 2525  
cereals, *Pomacea canaliculata* 3469  
Cucurbitaceae, Aphididae 10837  
*Drosophila* 3893  
Epilachninae 5789  
*Ficus*, *Ficotaranemus* 5544  
Formicidae 290  
*Liriomyza* 38  
*Liriomyza trifolii* 2224  
parasitoids 298  
*Litchi chinensis*  
*Conopomorpha sinensis* 10885  
orchards, Hymenoptera 10885  
Loranthaceae, *Tuberaphis takenouchii* 4832  
maize  
*Ostrinia furnacalis* 10718  
parasitoids 2421  
man, pesticide residues 2339  
*Nassophasis aspericollis* 12040  
*Nitidotachinus* 1798  
onions, *Spodoptera exigua* 6327  
peaches, Acari 2563  
pears, *Aphanostigma piri* 3538  
peas, *Liriomyza bryoniae* 2492  
*Pseudoregma bambucicola* 5812  
rice, *Chilo suppressalis* 5438  
*Sibataniiozephyrus kuafui* 5648  
Sphingidae 6100  
*Spodoptera litura* 368  
sugarcane  
*Ceratovacuna lanigera*, predators 2606  
*Chilo infuscatellus* 7875  
sweet potatoes, *Cylas formicarius* 612  
Symphyta 39  
Tephritidae 3101  
*Tetranychus urticae* 2226  
Thysanoptera 7292  
tobacco, Aphididae 2622  
*Zebe* 6170  
*Ziziphus mauritiana*, *Panonychus citri*, predators 7859
- Tajikistan**  
apples, *Callima dushanbella* 2555  
*Chorthippus* 5123  
integrated pest management 6915
- Taleporia tubulosa**  
forest trees, Austria 5028  
parasitoids 5028
- Talinum triangulare**, *Phenacoccus manihoti*, resistance 5480, 8712
- Talitridae**  
New Zealand 4861  
taxonomy 4861
- Tall oil**, effects, *Peridroma saucia* 2255, 4380
- Talstar** (see Bifenthrin)
- Tamarindus indica**  
*Caryedon serratus* 8890  
Karnataka 2680  
insect pests, Tamil Nadu 5779-5780  
*Oxyrachis sinensis*, Yunnan 5805
- Tamarix**, habitats, Chrysopidae, Spain 4674
- Tamarix canariensis**, *Dasyhelea punctiventris*, Spain 9738
- Tamarix nilotica**  
Eriophyidae  
Egypt 10949  
galls 10949
- Tamarix leucaenae**  
biology, reproduction 2128  
hosts, *Heteropsylla cubana* 2128, 7348  
*Psyllaephagus yaseeni*, competition 7348
- Tamarix radiata**  
biology  
environmental factors 2105  
reproduction 3216  
diets 10336  
ecology, population dynamics 2105  
hosts, *Diaphorina citri* 2105, 3216, 10336  
rearing techniques 10336
- Tamaron** (see Methamidophos)
- Tanacetum vulgare**, *Coleophora caelebipenella*, Europe 584
- Tanacetum, Europsella**, Holarctic Region 11127
- Tanacetum argenteum**, extracts, antifeedants, *Spodoptera littoralis* 3413
- Tanacetum cinerariifolium**, insecticidal properties 260
- Tanacetum vulgare**  
beneficial arthropods, Switzerland 2759  
extracts  
attractants, *Lobesia botrana* 11019  
effects, *Lobesia botrana* 5694  
odours, effects, *Myzus persicae* 7981
- Tanaostigmodes**, distribution, Afrotropical Region 8054
- Tanaostigmodes tambotis**  
biology, life cycle 8054  
*Spirostachys africana*  
galls 8054  
South Africa 8054  
taxonomy, new species 8054
- Tandonia budapestensis**, pathogens 350
- Tandonia sowerbyi**, pathogens 350
- Tangelos**, *Ceroplastes destructor*, New Zealand 1568
- Tangerines** (see Mandarins)
- Tannins**  
effects  
Acrididae 7719  
*Bacillus thuringiensis* subsp. *kurstaki*, pathogenicity 9512  
insect pests 4792  
*Malacosoma disstria* 4948  
*Manduca sexta* 5858
- Tanyemecus palliatus**, sugarbeet, Czech Republic 5588
- Tansphyrys lemnae**, *Pistia stratiotes*, Florida 3694
- Tanzania**  
*Acacia drepanolobium*, insects 4463  
coconuts, *Pseudothrips wavyi*, predators 9915  
cotton, pest control 10926  
*Cupressus lusitanica*, *Cinara cupressi* 1705  
Diptera 10303  
groundnuts, arthropod pests 6713  
maize, insect pests 1435  
*Spodoptera exempta* 5069, 6277
- Tapinoma**  
prey, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440
- Tapinoma melanocephalum**  
coconuts, plantations, Tonga 10899  
distribution, Texas 6102  
prey, *Graeffea crouanii* 10899
- Tapinoma nigerrimum**, biology, behaviour 11313
- Tapinoma sessile**, biology, behaviour 3826
- Tapioca**, *Samia cynthia ricini* 6416
- Taraxacum croceum**  
Diptera  
Norway 5705  
pollination 5705
- Taraxacum officinale**  
*Atta cephalotes* 3955  
extracts, attractants, *Anomala octiescos-tata* 2766  
Gastropoda, UK 11009  
*Lygaenus kalmii*, California 825  
*Phanacis taraxaci*, galls 2760
- Taro** (see *Colocasia esculenta*)
- Tarsonemidae**, coffee, habitats, Queensland 5596
- Tarsonemus confusus**  
distribution, Korea Republic 12026



- Tarsonemus confusus** *cont.*  
ornamental woody plants, Korea Republic 12026
- Tarsonemus granarius**  
cereals, commodities 850  
control  
chemical control 9013  
controlled atmospheres 850  
ecology, environmental factors 9013  
wheat, commodities, Manitoba 9013
- Tarsonemus occidentalis**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus sasai**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus scaurus**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Tarsonemus waitei**  
distribution, Korea Republic 12026  
ornamental woody plants, Korea Republic 12026
- Taxodium distichum**, *Archips argyrospilus*, USA 11982
- Taxomyia taxi**  
ecology, population dynamics 1134  
parasitoids 1134  
*Taxus baccata*  
galls 1134  
UK 1134
- Taxonomy**  
books 892  
*Rhyacionia* 3761
- Taxus**, *Otiorynchus sulcatus*, Poland 6812
- Taxus baccata**  
habitats, parasitoids, UK 1134  
*Otiorynchus sulcatus*, Germany 4574  
*Taxomyia taxi*  
galls 1134  
UK 1134
- TDE**  
residues  
extraction 4336  
fishes 6363  
lakes 6383  
*Pseudacris crucifer* 9606  
rivers 2382, 7613  
sediment 1345  
water 2346
- Tea** (*Camellia sinensis*)  
*Acaphylla theae*  
China 8821  
Tamil Nadu 3132  
Aphidoidea, China 9936  
arthropod pests 854  
control 3597  
Tamil Nadu 3597  
West Bengal 5593  
*Aspidiotus*, Kenya 5590  
*Brevipalpus phoenicis*, Indonesia 9934  
*Calacarus carinatus*, Kerala 7882  
*Caloptilia theivora* 6978  
*Ceroplastes ceriferus*, Guizhou 3599  
commodities  
insecticides, residues 10620  
pesticides, residues 7572  
pyrethroids, residues 6886  
*Diplopsocus*, Asia 14  
*Ectropis obliqua*, China 8823  
*Empoasca onukii*, Japan 10908  
*Euwallacea fornicatus*, Tamil Nadu 10909  
extracts  
antifeedants, *Pieris rapae* 8822  
effects, *Drosophila melanogaster* 5865  
pesticides, adjuvants 10504  
habitats, *Mestocharella javensis* 6978  
*Helopeltis theivora*, West Bengal 5592  
*Heptophylla picea*, Honshu 11958  
*Homona magnanima*, Honshu 11579  
insect pests 2616  
Argentina 5594  
China 7883  
India 2615  
insecticides  
effects 699
- Tea** *cont.*  
insecticides *cont.*  
residues 7983, 10620  
Isoptera, Malawi 699  
*Lygus lucorum*  
Jiangsu 7881  
resistance 7881  
*Lygus spinolae*, China 9935  
*Mylokerinus aurolineatus*, Fujian 9933  
*Parametriotes theae*, China 9932  
pest control, India 867, 2614, 5591  
pesticides, residues 3598  
plantations  
*Apanteles*, China 8823  
Araneae, Hunan 8820  
beneficial arthropods, Guangdong 7883  
beneficial insects, China 8821  
*Neoseiulus longispinosus*, Honshu 449  
parasitoids, Japan 11956  
Syrphidae, India 8824  
Tachinidae, Hunan 8382  
*Pseudaulacaspis pentagona*, Japan 11955-11957  
*Scirtothrips dorsalis*, Japan 2613  
Sri Lanka, reports 854  
*Toxoptera aurantii*, India 8824
- Teak** (*see Tectona grandis*)
- Tebuconazole**, with chlorpyrifos, control, Lepidoptera 6715
- Tebufenozide**  
analysis 7321  
control  
*Lobesia botrana*, grapes 9870  
*Spodoptera frugiperda*, maize 6461  
Tortricidae 6692  
effects  
*Chilo suppressalis* 4351  
*Choristoneura fumiferana* 11684  
*Cydia pomonella* 10549  
*Helicoverpa armigera* 2256  
insects 11683  
Lepidoptera, cell lines 9554  
*Spodoptera exigua* 691  
stored products pests 6875  
formulations 6337  
mixtures, *Spodoptera frugiperda*, toxicity 2272  
residues, environment 10973  
resistance, *Spodoptera littoralis* 8512  
toxicity  
aquatic invertebrates 4313  
insect pests 455, 4266, 7536-7537  
*Podisus* 9651  
*Spodoptera littoralis* 8512  
*Stethorus punctum* 10581
- Tebufenpyrad**  
control, arthropod pests, *Citrus* 11900  
effects, *Cyprinus carpio* 5308  
mode of action 3313  
toxicity  
*Tetranychidae* 9563  
*Tetranychus urticae* 6342  
usage 1314
- Tebupirimfos**  
nontarget effects, soil 10647  
with cyfluthrin, effects, soil 10647
- Techniques**  
algorithms, Formicidae, behaviour 3179  
analysis  
aniline, toxicity 2305  
antifeedants 10339  
Aphididae, population dynamics 4592  
arthropod communities 2022  
*Bombyx mori*, chromosomes 7135  
chlordane, residues 3141  
Coleoptera, predation 9383  
*Encarsia berlesii*, chromosomes 6118  
fumigants 1173  
growth regulators, fruit vegetables, commodities 4068  
Hymenoptera, genetics, DNA 9381  
insecticide resistance, *Drosophila* 1920  
insecticides 2293-2294, 2348, 3328, 7321  
residues 471, 3337, 3343, 4796, 5341, 6117  
atmosphere 8584  
cereals 11712
- Techniques** *cont.*  
analysis *cont.*  
insecticides *cont.*  
residues *cont.*  
crops 5503  
eggs 10567  
environment 3396, 11672  
honey 10634  
seafoods 10330  
wheat, commodities 5750  
toxicity 9403  
insects  
flight 10349  
hormones, reviews 3153  
*Nezara viridula*, secretions 11766  
organochlorine compounds 1383  
residues 1184  
pesticides 2046, 5112, 10521, 11630  
additives 10505  
chemical composition 2254  
effects 3371  
malathion, protective clothing 3139  
residues 2292, 3315, 9394, 12096-12097  
agricultural products 4807  
honey 11662  
water 3154, 4234, 10644  
reviews 2352  
pheromones 9658  
polychlorinated biphenyls 2263  
proteins 2170  
species diversity 3094  
*Trichogramma*, behaviour 7184  
analytical methods  
insecticides 2060  
formulations 10333  
residues 8345  
foods 10331  
man 2318  
water 10332  
pesticides, residues 1171, 7573  
application  
acaricides 3132  
*Beauveria bassiana*, *Melanoplus sanguinipes* 10431  
insecticides 421, 1491, 3561, 4272, 4547, 5436, 5485, 5514, 6130, 6278, 9389  
netting 10835  
sprays 6133  
trees 10865  
*Metarhizium flavoviride* 7466  
microbial pesticides 7484  
pesticides 2070, 3161, 3172, 3572, 5119, 7494, 9408  
aerial application 9409  
fogging 11874  
mixtures 8348  
sprays 3156, 3560  
sprays 5615  
assays  
*Bacillus thuringiensis*, toxicity 2213  
detection, nuclear polyhedrosis viruses 9489  
insecticides, effects, *Bemisia argentifolii* 11655  
juvenile hormone II 11213  
predators, prey 256  
assessment  
*Acrocerops syngamma*, damage, cashews 6704  
*Anthonomus grandis*  
flight 5617  
mortality 2639  
*Ceratitis capitata*, genetic polymorphism 6010  
insecticides  
effects, birds 11613  
nontarget effects, aquatic environment 10650  
residues 475  
toxicity, aquatic organisms 10624  
pesticides  
effects 1358-1359  
*Encarsia formosa* 4093  
exposure 5106, 9385  
losses, soil 10664  
mixtures 5120  
nontarget effects  
beneficial arthropods 4282



**Techniques cont.**

- assessment cont.
  - pesticides cont.
    - nontarget effects cont.
      - plants 5101
      - Porcellionides pruinosus* 11605
      - vertebrates 4283
    - sprays 7298-7299
    - toxicity 10611, 11656
  - Podisma pedestris*, dispersal 8267
  - pollutants, effects 1387
  - species diversity 11403
  - sprayers 7300
  - ultraviolet radiation, effects, pathogens 9479
  - Varroa jacobsoni*, damage 11437
- bioassays
  - Bacillus thuringiensis*, formulations 10351
  - Beauveria bassiana* 7391
  - entomogenous fungi 7423
  - pathogenicity 8443
  - entomophilic nematodes 7414
  - Heterotermes indicola* 849
  - insecticides 2297, 10019
  - effects 3131
    - Homoptera 10352
    - nontarget effects 6372
    - resistance 2401, 3140, 5110-5111
  - Lymantria dispar*, pheromones 3830
  - nuclear polyhedrosis viruses 1248
  - peptides, effects, *Locusta migratoria* 6142
  - pheromones 7310
  - reviews 5121
  - soil arthropods 5118
  - Tribolium castaneum*, plant extracts, effects 410
- cell culture, *Spodoptera frugiperda* 4071
- certification
  - Ribes* 10862
  - Rubus* 10860
  - strawberries 10864
- characterization
  - Bacillus thuringiensis* 10407
  - Bombyx mori*, proteins 10197
  - Hyphantria cunea*, lipophorins 10176
  - insect viruses 10444
  - juvenile hormones 8346
  - Melanoplus sanguinipes*, proteins 11227
  - Metarhizium anisopliae* 4065
- chromatography, insecticides, purity 272
- collection
  - Anticarsia gemmatilis*, pupae 6125
  - Aphis spiraeicola*, eggs 7313
  - Bemisia tabaci*, parasitoids 11449
  - Carabidae 5102
  - insects, sap 7780
- computer aided identification, biodiversity 7295
- computer software 8467
- computer techniques, insecticides, structure activity relationships 10342
- controlled release, insecticides 1316
- cryopreservation
  - Drosophila melanogaster* 8328
  - Erynia radicans* 11505
- culture (see Culture techniques)
- decontamination
  - biological control agents, pressure treatment 10358
  - sediment, insecticides, residues 488
  - water, insecticides, residues 488
- detection
  - Bacillus thuringiensis*, toxins 6124
  - Bombyx mori*, nuclear polyhedrosis viruses 2174
  - cherries, insect pests, damage 6658
  - ELISA, pesticides 263
  - entomogenous fungi 6261
  - Hemiptera, enzymes 5104
  - insect viruses 2176
  - insecticides 2062, 2271, 3150, 3327, 11398
  - environment 11678
  - residues 2061
    - drinking water 2375
    - vegetables 9395
  - resistance 258, 9399

**Techniques cont.**

- detection cont.
    - insects, pathogens 3283
    - irradiation, *Bactrocera tryoni* 6106
    - Oemona hirta* 6109
  - pesticides 10597
    - crops 9393
    - faba beans 9396
    - residues 3138
    - water 10663
  - plant viruses 6603
    - Myzus persicae* 9847
  - pollutants, soil 2057
  - prey 6127
  - Sitophilus*, maize, commodities, damage 5749
  - Sternonchetus mangiferae*, mangoes, commodities 6891
- determination**
- Abax parallelepipedus*, diets 10375
  - acaricides, residues 2358, 5286, 10605
  - Aphididae, feeding 143
  - arthropods, lipids 141
  - carbaryl 1312
  - Dendroctonus frontalis*, lipids 3863
  - foods, insecticides, residues 3148
  - fumigants 1182
  - residues
    - blood 9398
    - commodities 9398
  - Goniozus nephantidis*, developmental stages 9384
  - insecticides 411, 1313, 2299, 2334, 6304, 7322, 10329, 10507, 11397
  - degradation 6110
  - phytotoxicity 7312
  - residues 462-463, 468, 490, 494, 845, 2047, 3397, 3682, 4805-4806, 5346, 5734, 6498, 10604, 11396, 11402, 12038
  - air 8578
  - apples 8575, 10588
  - fishes 4072
  - horticultural crops, commodities 5740
  - meat 1763
  - milk 442
  - soil 2058, 6204
  - tea 6886
  - water 2374, 10633
  - toxicity, Lepidoptera 7545
  - water 5292
  - lethal dose 4053
  - Nilaparvata lugens*, biotypes 9729
  - organochlorine compounds 2383, 10643
  - organochlorine pesticides
  - medicinal plants, residues 7983
  - residues, water 7611
  - Panonychus citri*, population density 8785
  - pest resistance 6445
  - maize 8652
  - pesticides 1388, 7572, 8565, 10356, 10641
  - air 8592
  - residues 487, 499, 5735-5736, 9636
  - air 8582
  - environment 2073
  - fishes 10568
  - foliage 3146
  - foods 9604
  - horticultural crops 12067
  - meat 4793
  - soil 511, 10658, 10666
  - water 4335
  - wine 12073
  - water 4067, 4069, 7599
  - proteins, toxicity, *Acyrtosiphon pisum* 11566
  - sediment, insecticide residues 484
- differentiation**
- Aphididae, clones 3134
  - Bacillus thuringiensis*, strains 3149
  - Lymantria dispar*, populations 1177
  - discriminant analysis, *Sitobion avenae* 7654

**Techniques cont.**

- discrimination, *Photographus luminescens* 7417
- DNA fingerprinting
- Aphididae 7297
- Bombyx mori* 147
- DNA probes, insects 8330
- electroantennograms
- Acyrtosiphon pisum* 4052
- Noctuidae, pheromones 5891
- electron microscopy, Entomopoxvirinae 9499
- electrophoresis, insects 7302
- ELISA, insecticides 4238
- encapsulation, entomophilic nematodes 11389
- estimation
  - Aphis gossypii*, population density 6556, 7748
  - cassava, insect pests, damage 2509
  - Euscepes postfasciatus*, population density 10792
  - functional responses 4103
  - heat sums 4061
  - Heteropsylla cubana*, population density 10951
  - insecticides, resistance 6111
  - insects, mortality 1176
  - man, pesticides, effects 10627
  - pesticides, effects 7593
  - Quadricalcarifera punctatella*, population density 5647
  - Scarabaeoidea, biomass 6023
- evaluation
  - insecticides
    - effects, aquatic organisms 4328
    - exposure, nontarget organisms 11622
  - pest control 11394
  - pest resistance 709
  - pesticides
    - residues, environment 510
    - toxicity 4235
  - Sesamia nonagrioides*, chemical control 9700
  - traps, insect pests 259
- examination, insects 8334
- expert systems
  - Aphis fabae*, faba beans, forecasting 4474
  - cotton, pest control 3616
  - pest control 8447
  - potatoes, integrated pest management 7756
- extraction
  - cereals, commodities, pesticides, residues 8577
  - Entomophaga maimaiga* 4698
  - insecticides 2066
  - residues 4336, 11395
  - soil 9646
  - vegetables 3513
  - water 10649
  - soil 7308
- insects
  - genetics, DNA 11235
  - leaves 8335
- Lepidoptera, DNA 3135
- pesticides 2055, 10357
- residues
  - foods 12085
  - soil 12085
  - water 7609, 10644
  - soil 9410
  - water 502
- pirimicarb, residues, soil 10514
- Plutella xylostella*, vesicles 4058
- polychlorinated biphenyls 5317
- forecasting (see Forecasting)
- formulation, pesticides 426
- formulations, insecticides 2261
- freeze drying, Aphidoidea 10334
- genetic engineering, microbial pesticides 2211
- identification
  - Aphididae 2071
  - arthropods, paternity 4993
  - Bactrocera* 8341
  - Bruchidae 10341
  - Callosobruchus chinensis*, developmental stages 8343



**Techniques cont.**

- identification cont.
  - Callosobruchus maculatus* 6895
  - Coccinellidae, genetic markers 3152
  - entomogenous fungi 6261
  - insects 7318
  - Lymantria* 8236
  - Melanoplus sanguinipes*, proteins 11227
  - microbial pesticides, strains 11474
  - Myzus persicae*, morphs 7311
  - Nosema furnacalis*, spores 9493
  - nuclear polyhedrosis viruses 11523
  - pheromones 520
  - Rhopalosiphum padi*, morphs 5829
  - Sitobion avenae* 5105
  - Solenopsis*, genetic markers 8340
  - Tephritidae 2053
  - Trichogramma* 11244
- immobilization, Formicidae 1168
- immunoassay
  - Dysdercus fasciatus*, moulting hormones 6120
  - insecticides 4284
  - residues, foods 9618
  - plant viruses, Aphididae 8342
- immunofluorescence, insects, chromosomes 5117
- infection
  - nuclear polyhedrosis viruses, cell lines 5220
  - Tribolium confusum*, *Wolbachia pipientis* 7461
- isolation
  - Galleria mellonella*, genes 2982
  - Nosema furnacalis*, spores 9493
- lysine, insecticides, residues, environment 2371
- mark release recapture, *Epilachna niponica* 2017
- marking, *Lymantria dispar*, predators 9392
- measurement
  - agricultural chemicals, evaporation 7519
  - Coleoptera, movement 7307
  - Cylas formicarius*, flight 7213
  - damage, plants 2429
  - Tortricidae, activity 3987
- microscopy
  - Encarsia perniciosi*, development 2115
  - Lepidoptera, genitalia 7305
  - Liposcelis* 10028
  - Microlepidoptera 7303
  - Phasmida, embryology 2049
- molecular genetics
  - arthropods 5987
  - insects 5976
- monitoring
  - Cacopsylla pyri* 6653
  - Helicoverpa armigera*, insecticides, resistance 6317
  - insecticides
    - effects, birds 10583
    - residues, water 5361, 11665
    - resistance 9404, 10555
  - insects, flight 4074
  - pesticide residues 8587
  - mammals 459
  - pesticides
    - effects 1360
    - residues, environment 255
  - pollution 9277
  - Pterostichus melanarius*, prey 9390
  - Spodoptera litura*, damage 10761
  - PAGE, *Bacillus thuringiensis*, proteins 2074
  - plant breeding, potatoes, pest resistance 10785
  - preparation, *Paecilomyces farinosus* 9492
  - preservation
    - Athalia rosae*, spermatozoa 3803
    - Coleoptera 257
  - production
    - Metarhizium anisopliae* 7469
    - proteins 11534
  - purification
    - Bombyx mori*, enzymes 7042
    - Drosophila melanogaster*, proteins 5100

**Techniques cont.**

- purification cont.
  - Hyphantria cunea*, lipophorins 10176
- radio, detection, insects 3982
- rearing (see Rearing techniques)
- recording
  - Drosophila mettleri*, songs 9386
  - insects, flight 10347
  - Manduca sexta*, sense organs 4073
- release, pheromones 11554
- remote sensing
  - forest pests 6781
  - insects 2065
  - Leptinotarsa decemlineata* 6551
- removal
  - insecticides
    - drinking water 2378
    - residues
      - crops 2323
      - man 10623
      - water 2805, 3150
    - pesticides
      - residues, water 5107
      - water 6134
  - sampling (see Sampling)
  - screening
    - Bombyx mori*, pathogens 10390
    - man, pesticides, poisoning 8532
    - pest resistance 4422, 6449
    - pesticides 10600
    - residues, groundwater 9638
  - separation
    - Bacillus thuringiensis* subsp. *yunnanensis*, crystal proteins 8326
    - Chrysodeixis includens*, haemocytes 104
    - Lepidoptera, haemocytes 10198
    - marine environment, pollutants 2351
  - spraying, hops 3147
  - staining
    - Acarapis woodi* 9379
    - Aphididae, mouthparts 788
    - Liriomyza trifolii* 11392
    - proteins 9188
  - statistical analysis
    - Carabidae, ecology 5453
    - insecticides, application 6129
    - Opisita arenosella*, population density 9917
    - pesticides, toxicity 264
    - predator prey relationships 2106
  - statistical techniques, Drosophilidae 1077
  - storage
    - Bombyx mori* 2146
    - Metarhizium flavoviride* 10446
  - surveys
    - biodiversity 3024
    - granulosis viruses 7441
  - synthesis
    - acaricides 4258
    - dithianes 10343
    - insecticides 3679, 11569
    - metabolites 6303
    - juvenile hormones 10668
    - Lepidoptera, attractants 9966
    - moulting hormones 11218
    - pesticides 4237
    - residues 4236
    - pheromones 266, 270, 518-519, 521, 523, 1400, 2565, 3144, 3304, 4357, 8602, 10167, 10344, 10674, 11687, 11690
    - plant extracts 11001
    - analogues 10345
    - pyrethroid acids 260
    - pyrethroids 5289
    - trioxabicyclooctanes 10343
  - testing
    - entomogenous fungi, viability 10447
    - insecticide resistance 6322
    - Oulema oryzae*, insecticide resistance 9387
    - pest resistance 2399
    - pesticides
      - application 3162
      - mixtures, toxicity 8568
      - protective clothing 3159
  - trapping, Lepidoptera 5678
  - waste disposal, insecticides, residues 11667

**Technomyrmex albipes**

- Alpinia purpurata* 10996
- control 10996
- ecology, reproduction 11164
- Tecia solanivora**
  - potatoes
    - Costa Rica 9777
    - damage 9777
- Tecomella undulata**, *Patialus tecomella*, Indian Punjab 3668
- Tectona**
  - Cossus cadambae*, Kerala 2672
  - Eutectona machaeralis*, Uttar Pradesh 3625
- Tectona grandis**
  - Cossus cadambae*, Karnataka 2678
  - Eutectona machaeralis* 8894
  - Holotrichia serrata*, Sri Lanka 8891
  - insect pests
    - damage 8889
    - Thailand 8889
  - Lepidoptera 3630
- Teflubenzuron**
  - control
    - Cydia molesta*, pome fruits 7809
    - insect pests, cowpeas 9771
    - Plutella xylostella*, cabbages, models 9802
    - Scrobipalpa absoluta*, tomatoes 2535
  - effects
    - Acrididae 3422
    - Coccinellidae 444
    - predatory insects 9771
    - Trichogramma pretiosum* 7570
  - mixtures, control, insect pests, cowpeas 9771
  - nontarget effects, Hymenoptera 4104
  - resistance, *Plutella xylostella* 6336, 8504, 9650
  - toxicity
    - Ceraeochrysa cubana* 4324
    - Coleoptera 1332
    - Diadegma semiclausum*, models 9802
    - Eulophus pennicornis* 9614
    - Plutella xylostella* 10669
    - Stethorus punctum* 10581
- Tefluthrin**
  - control
    - arthropod pests, sugarbeet 11954
    - insect pests, sugarbeet 2611, 11953
    - Ophiomyia phaseoli*, *Phaseolus* 10770
  - effects, herbicide resistance 9714
  - formulations 11572
  - interactions, herbicides 2316
  - phytotoxicity, ornamental plants 4277
- Tefubenzozide**, effects, Lepidoptera 8510
- Tegetiula yuccasella**
  - biology, behaviour 8000
  - Yucca*, pollination 2721
  - Yucca filamentosa*, pollination 2722
  - Yucca glauca*
    - Colorado 4749
    - pollination 4749
  - Yucca kanabensis*
    - pollination 1741, 8000
    - Utah 1741, 8000
- Tegolophus myersi**
  - avocados, Chile 9358
  - distribution, Chile 9358
- Tegolophus zizyphagus**
  - control 8793
  - Zizyphus sativa*, China 8793
- Telamonia bifurcilinea** (see *Phintella bifurcilinea*)
- Teleiodes decorella**, pistachios, Greece 8800
- Telenomus**
  - attractants 7502
  - fields, habitats, Quebec 4110
  - hops, habitats, Honshu 10380
  - hosts
    - Coniesta ignefusalis* 2442
    - Inachis io* 10380
    - Lygus lineolaris* 4110
    - Nisaga simplex* 11745
    - Tibraca limbativentris* 9725
  - millets, fields, Niger 2442
  - rice, habitats, Orissa 11745
- Telenomus ampullaceus**
  - fields, habitats, Maharashtra 5153
  - hosts, *Chrysoperla carnea* 5153



**Telenomus busseolae**

- biology 6173
- control, *Sesamia nonagrioides* 6173
- hosts, *Sesamia calamistis* 10714
- maize, fields, Benin 10714

**Telenomus dendrolimi**

- biology, behaviour 10372
- hosts, Lasiocampidae 10372

**Telenomus gynaephorae**, hosts, *Gynaephora*

10379

**Telenomus kolbei**, hosts, *Andraca bipunctata*

11457

**Telenomus laelia**

- control, *Laelia coenosa* 11455
- Jiangsu 11455

**Telenomus remus**

- control, *Spodoptera litura*, potatoes 1493
- hosts, *Agrotis biconica* 4635
- potatoes, fields, Karnataka 1493

**Telenomus rowani**

- hosts, *Scirpophaga incertulas* 5441
- rice, fields, Indonesia 5441

**Teleogryllus commodus**

- biochemistry, enzymes 279
- morphology, reproductive organs 1858
- physiology, nervous system 8151
- plant extracts, effects 4259

**Teleogryllus emma**

- biology, environmental factors 10274
- Shandong 10274

**Teleogryllus infernalis**

- biology, environmental factors 10274
- Shandong 10274

**Teleogryllus oceanicus**

- physiology
- nervous system 981
- sense organs 1899

**Teleonemia scrupulosa**

- control, *Lantana camara* 11446
- Lantana camara* 8979
- predators 11446

**Teleopteris**, taxonomy 4830**Telsimia nigra**, distribution, Korea Republic

11099

**Temeleucha sinuata**, hosts, *Zophodia**prodenialis* 1758**Temephos**

- control, Chironomidae, rice 9734
- toxicity, *Steinernema carpocapsae* 7583

**Temik** (see Aldicarb)**Temnaspidiotus destructor** (see *Aspidiotus**destructor*)**Temnorhynchus**

- distribution, Africa 1601
- taxonomy 1601, 5816

**Temnorhynchus coronatus**, coconuts 1601**Temnoscheila chlorodia**, prey, Scolytidae

11976

**Temnothorax recedens**, genetics, genes 5143**Temperate fruits**

- Apodiphys*, Pakistan 2546
- pest control
- models 639
- Netherlands, reports 853
- Tortricidae, Hungary 2235

**Temperature**

- effects
- Bacillus thuringiensis*, pathogenicity 9854
- nuclear polyhedrosis viruses 6238
- Steinernema kushidai* 7480

**Tenebrio molitor**

- biochemistry
- cuticle 5945
- immune response 11490
- metabolism 96
- neuropeptides 7021
- proteins 8173, 9210
- biology
- development 5856
- environmental factors 6079
- life history 7373
- chromosomes, immunofluorescence 5117
- control, chemical control 6881
- flour mills, Italy 6878
- genetics
- chromosomes 5117
- DNA 2956
- genes, proteins 11271
- growth regulators, toxicity 2281
- Guangdong 7373

**Tenebrio molitor** cont.

- insecticides
- effects 8601
- toxicity 4319, 11595
- insects as food 7373
- morphology, nervous system 4887
- pathogens 1247, 4136, 7396, 10455
- physiology 8601
- endocrine system 11271
- enzymes 9163
- metamorphosis 2902
- sense organs 10186
- plant extracts
- antifeedants 2391, 6400, 6404, 10679
- effects 9163
- predators 1103, 1347, 3991, 5166, 6158, 7373, 9418, 10205, 10383, 11561
- rearing techniques 7373

**Tenebrio obscurus**, prey, *Acanthognathus**rudis* 6055**Tenebrionidae**

- Asia 8074
- asparagus, South Africa 5502
- control, chemical control 6714
- deserts, Namibia 11305
- Eucalyptus*, Espirito Santo 3637
- groundnuts
- Africa 6713
- damage 4632, 6713
- South Africa 4632, 6714
- monitoring, traps 3637
- morphology 57, 8074
- physiology, senses 11305
- taxonomy 4821, 7318, 8074

**Tenebroides mauritanicus**

- cereal grains, South Carolina 4809
- flour mills, Italy 6878

**Tennulosa ilisha**, insecticides, residues

11647

**Tenodera angustipennis**

- Delaware 226
- ecology, environmental factors 226
- Thaumaglossa rufocapillata*, interactions 4119

**Tenodera aridifolia**, *Thaumaglossa rufo-**capillata*, interactions 4119**Tenodera sinensis**

- biology
- behaviour 210, 3049
- environmental factors 10382
- Delaware 226
- ecology
- environmental factors 226
- population dynamics 3049
- fields, habitats, Delaware 3049
- Maryland 10382
- predatory arthropods, interactions 3049

**Tenthredinidae**

- Betula*, Finland 6750
- China 8078
- ecology
- habitats 6750
- population dynamics 10695
- fertilizers, effects 10695
- field crops, Estonia 10695
- parasitoids 11106
- pathogens 7434, 7956
- taxonomy 8078
- wheat, UK 4409

**Tenthredo maxima**

- morphology 4823
- taxonomy 4823

**Tenuipalpus**, taxonomy 3746**Tenuipalpus citri**, taxonomy, synonyms, of*T. emetica* 3746**Tenuipalpus danxianensis**

- sapodillas, Hainan 11132
- taxonomy, new species 11132

**Tenuipalpus sanyaensis**

- Lansea coromandelica*, Hainan 11132
- taxonomy, new species 11132

**Tenuipalpus emetica**, taxonomy, synonyms,*T. citri* 3746**Tephрина arenacearia**

- Hungary 4360
- pheromones 4360

**Tephritidae**

- biochemistry, enzymes 2912
- biology 861, 3730
- Centaurea*, Europe 1225
- control 861, 2210, 3533, 5766

**Tephritidae** cont.

- control cont.
- heat treatment 1774
- reviews 10460
- distribution
- Australia 8315
- Switzerland 3730
- ecology 3730
- fruits
- China 2210
- South Africa 3533
- genetics
- conferences 5766
- nucleotide sequences 5986
- Japan 10460
- monitoring 3533
- Pacific Islands 11011
- parasitoids 3226
- Switzerland, books 3730
- taxonomy 2861, 3730, 7318
- Tephritis apicata**, taxonomy, synonyms, of
- Euaresta reticulata* 9
- Tephritis arizonaensis**
- Baccharis sarothroides*, California 829
- biology, life cycle 829
- parasitoids 829
- Tephrosia candida**, extracts, control, *Cos-*
- mopolites sordidus* 661
- Tephrosia purpurea**, *Orthacris maindroni*
- 582
- Tephrosia vogelii**, extracts, control, *Cosmop-*
- olites sordidus* 661
- Terbufos**
- control
- Collembola, *Brassica* 6578
- Heteronychus arator*, sugarcane 8816
- insect pests, maize 6470
- Otiorynchus sulcatus*, ornamental
- woody plants 6812
- Tenebrionidae, field crops 5396
- effects
- herbicide resistance 9714
- Lumbricus terrestris* 7598
- Peromyscus maniculatus* 8553
- extraction 2066
- herbicides
- interactions 6470
- assessment 5120
- interactions, herbicides 2316, 10632, 10722
- nontarget effects, maize 10632, 10722
- residues, environment 2066
- toxicity
- aquatic organisms 1343-1344
- Maladera matrida* 8511
- Terellia ruficauda**
- biology, reproduction 5728
- Cirsium arvense*, North America 5728
- Terellia uncinata**
- Centaurea solstitialis*
- Italy 5729
- resistance 5729
- Terellia vectensis**
- Serratula tinctoria*
- galls 8985
- UK 8985
- Teratophylidea opaca**
- biology 1141
- distribution, Brazil 1141
- morphology 1141
- taxonomy 1141
- Teratophyllini**
- Australia 11105
- taxonomy 11105
- Termes**, morphology, digestive tract 3787
- Termes lacteus**, taxonomy 3756
- Termes lactis**, taxonomy 3756
- Termes nigrus**, morphology, digestive tract 3787
- Termes saltans**, morphology, digestive tract 3787
- Terminalia**, *Aleuroclava terminaliae*,
- Maharashtra 21
- Terminalia arjuna**
- Antheraea mylitta* 6211
- Apoderus tranquebaricus*
- Bihar 725
- damage 725
- Terminalia ferdinandiana**
- insect pests
- damage 5637



- Terminalia ferdinandiana* cont.**  
insect pests cont.  
Northern Territory 5637
- Terminalia manii*, *Bactrocera dorsalis*,**  
Andaman and Nicobar Islands 11887
- Terminalia procera*, *Bactrocera dorsalis*,**  
Andaman and Nicobar Islands 11887
- Termitacarus ishiharai***  
hosts, *Reticulitermes speratus* kyushuensis 11116  
Japan 11116  
taxonomy, new species 11116
- Termitidae**  
biochemistry, digestive tract 5900  
biology, environmental factors 11937  
Congo 3237  
forests, Uttar Pradesh 726  
groundnuts, Delhi 11937  
insecticides, toxicity 3679  
physiology, digestive system 3236  
plant extracts, toxicity 3679
- Termitomyces***  
*Macrotermes*, symbionts 5187  
*Macrotermes muelleri*, symbiosis 91
- Termitoxeniinae**, taxonomy 9090
- Ternstroemia gymnanthera*, *Trioxa ternstroemiae***, Japan 9061
- Terpenes**, mixtures, effects, *Choristoneura occidentalis* 4746
- Terpenoids**  
attractants, predatory arthropods, reviews 4370  
effects  
Phytoseiidae 4354  
Scolytidae 2709  
toxicity, stored products pests 8479
- Tersilochus***  
*Cynoglossum officinale*, habitats, Netherlands 2748  
hosts, *Ceutorhynchus crucifer* 2748
- Tersilochus heteroceris***  
hosts  
*Ceutorhynchus pallidactylus* 2130  
*Meligethes* 8801  
rape, fields, Sweden 8801  
wheat, fields, Germany 2130
- Tersilochus microgaster***  
hosts  
*Ceutorhynchus pallidactylus* 2130  
*Psyllioides chrysocephala* 2130  
wheat, fields, Germany 2130
- Tersilochus obscurator***  
hosts, *Ceutorhynchus pallidactylus* 2130  
wheat, fields, Germany 2130
- Tessaratomia papillosa***  
control, biological control 11905  
parasitoids 11905  
subtropical tree fruits, Guangxi 11905
- Tessaratomidae**  
morphology, mouthparts 1862  
Nicaragua 10316  
taxonomy, bibliographies 46
- Tetracampidae**, taxonomy 6960
- Tetrachlorvinphos**, control, *Cadra*, dates 3540
- Tetracnemoidea brevicornis***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetracnemoidea peregrina***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetracnemoidea sydneyensis***  
fruits, habitats, New Zealand 640  
hosts, *Pseudococcus* 640
- Tetradacus citri* (see *Bactrocera minax*)**
- (9Z,11E)-9,11-Tetradecadienoic acid**, pheromones, *Spodoptera littoralis* 3833
- (9Z,11E)-9,11-Tetradecadien-1-ol acetate** pheromones  
*Spodoptera eridania* 2428  
*Spodoptera littoralis* 3831
- (9Z,12E)-9,12-Tetradecadien-1-ol acetate** pheromones  
*Plodia interpunctella* 11693  
*Spodoptera* 2428, 9068
- (9Z,12E)-9,12-Tetradecadien-1-ol**, attractants, *Spodoptera exigua* 4373
- (9Z,12E)-9,12-Tetradecadien-1-ol**, pheromones, *Plodia interpunctella* 11693
- (3E,5Z)-3,5-Tetradecadienyl acetate**, attractants, *Recurvaria leucatella* 1530
- (9E,11E)-9,11-Tetradecadienyl acetate**, pheromones, *Epiphyas postvittana* 5377, 7820
- (9Z,11E)-9,11-Tetradecadienyl acetate** pheromones  
*Spodoptera littoralis* 10169  
*Spodoptera litura* 6406
- (9Z,12E)-9,12-Tetradecadienyl acetate** attractants, *Ephestia kuehniella* 11046  
pheromones  
*Ephestia kuehniella* 6878  
*Spodoptera littoralis* 10169  
*Spodoptera litura* 6406  
with cypermethrin, control, *Ephestia kuehniella*, flours 11046
- Tetradecan-1-ol**, pheromones, *Acrobasis vaccinii* 7061
- (Z)-11-Tetradecanol**, pheromones, *Merophyas leucaniana* 675
- (Z)-9-Tetradecan-1-ol**, pheromones, *Spodoptera* 2428
- (Z)-9-Tetradecen-1-acetate**, pheromones, Noctuidae 5272
- Tetradecenal**, pheromones, *Graphania* 402
- (E)-11-Tetradecenal**, pheromones, *Choristoneura fumiferana* 9656
- (Z)-11-Tetradecenal**, pheromones, *Choristoneura fumiferana* 9656
- 9-Tetradecenal**, control, Lepidoptera, cotton 4655
- (Z)-9-Tetradecenal**, pheromones, Lepidoptera 1630
- (E)-11-Tetradecenoic acid**, pheromones, *Spodoptera littoralis* 3833
- Tetradecenol**, pheromones, *Graphania* 402
- (Z)-9-Tetradecen-1-ol acetate**, pheromones, *Spodoptera* 9068
- (E)-11-Tetradecen-1-ol**, control, *Platynota idaeusalis*, apples 6640
- (Z)-9-Tetradecenol**, pheromones, *Spodoptera littoralis* 10169
- (E)-7-Tetradecen-2-one**  
mixtures  
attractants, *Exomala orientalis* 1892  
pheromones, *Blitopertha orientalis* 6815  
pheromones  
*Blitopertha orientalis* 5376, 7629  
*Exomala orientalis* 1892
- (Z)-7-Tetradecen-2-one**  
mixtures  
attractants, *Exomala orientalis* 1892  
pheromones, *Blitopertha orientalis* 6815  
pheromones  
*Blitopertha orientalis* 5376, 6815, 7629  
*Exomala orientalis* 1892
- Tetradecenyl acetate**, pheromones, *Graphania* 402
- 11-Tetradecenyl acetate**, pheromones, *Ostrinia nubilalis* 4375
- (E)-11-Tetradecenyl acetate** control, *Platynota idaeusalis*, apples 6640  
pheromones  
*Argyrotaenia ljungiana* 11853  
*Epiphyas postvittana* 5377, 7820  
*Merophyas leucaniana* 675  
*Ostrinia nubilalis* 517  
Tortricidae 4552
- (Z)-11-Tetradecenyl acetate** effects, *Aethmia ambusta* 11850  
pheromones  
*Argyrotaenia ljungiana* 11853  
*Cnephasia jactatana* 675  
inhibitors, *Epiphyas postvittana* 7820  
*Merophyas leucaniana* 675  
*Ostrinia nubilalis* 517  
Tortricidae 4552
- (Z)-5-Tetradecenyl acetate**, effects, *Aethmia ambusta* 11850
- (Z)-7-Tetradecenyl acetate**, effects, *Aethmia ambusta* 11850
- (9Z,12E)-9,12-Tetradecenyl acetate**, pheromones, *Spodoptera exigua* 6407
- (Z)-9-Tetradecenyl acetate** attractants, *Spodoptera exigua* 4373  
mixtures, control, *Agrotis segetum* 9537  
pheromones  
*Agrotis ipsilon* 5070  
*Agrotis segetum* 9657
- (Z)-9-Tetradecenyl acetate cont.**  
pheromones cont.  
*Spodoptera* 10678  
*Trichoplusia ni* 3824
- (E)-Tetradecenyl acetate**, mixtures, attractants, insect pests 5419
- (Z)-Tetradecenyl acetate**, mixtures, attractants, insect pests 5419
- (Z)-9-Tetradecenyl nitrate**, pheromones, *Bucculatrix thurberiella* 4663
- (E)-5-Tetradecen-1-yl**, pheromones, *Athrips* 270
- (3E)-3-Tetradecenyl acetate**, attractants, *Recurvaria nanella* 1530
- Tetradecyl acetate** pheromones  
*Acrobasis vaccinii* 7061  
*Merophyas leucaniana* 675
- Tetradenia riparia***, extracts, toxicity, *Zabrotes subfasciatus* 4479
- Tetradifon**  
control, *Tetranychus ludeni*, okras 5513  
formulations 6294  
water hardness, effects 3324  
residues  
apricots 11862  
leafy vegetables 3513
- Tetradium daniellii***, extracts, insecticidal properties 1720
- Tetragantha***  
control, *Tagosodes orizicolus*, rice 11742  
rice, fields, Colombia 11742
- Tetragantha elongata***  
biology, behaviour 5178  
North Carolina 5178
- Tetragantha japonica***  
prey, *Sogatella furcifera* 8664  
rice, fields, Philippines 8664
- Tetragantha maxillosa***  
ecology, population dynamics 11750  
prey, insects 11750  
rice, fields, China 11750
- Tetragantha straminea***, rice, fields, Colombia 11742
- Tetraganthidae**  
biology, behaviour 2579  
Citrus, orchards, South Africa 2579  
prey, *Trioxa erytreae* 2579
- Tetrahymena***, pesticides, metabolism 5330
- Tetrahymena thermophila***, insecticides, effects 6367
- Tetralobus cavifrons***, Acacia, Sudan 6776
- Tetramesa***  
biology 3743  
grasses, UK 3743  
morphology 3743  
taxonomy 3743
- (1R,3R,5R,7R)-1,3,5,7-Tetramethyldecyl formate**, effects, Acari 98
- 1R,3R,5R,7R-1,3,5,7-Tetramethyldecyl formate**, pheromones, Acari 98
- (2E,4E,6R,10R)-4,6,10,12-Tetramethyl-2,4-tridecadien-7-one** pheromones  
*Matsucoccus* 7630  
*Matsucoccus thunbergianae* 5672, 12014
- Tetramorium***, genetics 3880
- Tetramorium auleatum***  
biology, behaviour 287  
cocoa, plantations, Ghana 4645  
interactions, Hemiptera 4645  
pheromones 287
- Tetramorium bicarinatum***, biology, behaviour 3188
- Tetramorium caespitum***  
distribution, Idaho 2045  
genetics 3880  
Honshu 5790  
*Lasius neoniger*, competition 2045  
*Nipponatelurina kurosai*, interactions 5790  
prey, *Diuraphis noxia* 2045
- Tetramorium impurum***, genetics 3880
- Tetramorium simillimum***, *Coptotermes formosanus*, interactions 6205
- Tetranera fusiformis* (see *Byrsocrypta fusiformis*)**
- Tetranera radicola***  
ecology, population dynamics 4712



***Tetraneura radicolica* cont.**

- Ulmus davidiana*
- galls 4712
- Hokkaido 4712

***Tetraneura sorini***

- ecology, population dynamics 4712
- Ulmus davidiana*
- galls 4712
- Hokkaido 4712

**13,14,15,16-Tetranor-neo-clerodanes, antifeedants, *Spodoptera littoralis* 2735****Tetranychidae**

- control, biological control 10863, 10990
- cotton
  - China 9949
  - resistance 9949
- ecology, environmental factors 2512
- insecticides, toxicity 11570
- ornamental plants, Germany 10990
- predators 2512
- strawberries, Germany 10863
- taxonomy 7377

***Tetranychus***

- acaricides, effects 6333
- control, chemical control 4653, 6655
- cotton, Ceara 4653
- fruits, South Africa 11841
- predators 613
- Prunus salicina*, California 6655

***Tetranychus cinnabarinus***

- acaricides, effects 11599
- aubergines 2536
- biology 7933
  - development 10244
  - diapause 3022
- cassava 4483
- control 7933
  - chemical control 10816
- cotton
  - Henan 10918
  - outbreaks 10918
- crops 11830
- ecology
  - arthropod communities 9349
  - spatial distribution 2536
- greenhouse crops, Poland 10816
- melons
  - Israel 5562
  - resistance 5562

***Phaseolus*, Portugal 6542**

- plant extracts
  - effects 11830
  - toxicity 6305, 11583
- predators 10371
- prey, *Tetranychus* 10244
- sampling 2536
- vegetables, Sichuan 9349
- watermelons, varietal susceptibility 1526
- Ziziphus sativa* 7933

***Tetranychus hypogaea*, predators 10244*****Tetranychus kanzawai***

- acaricides, effects 4276
- agricultural chemicals, toxicity 2392
- aubergines, Honshu 9814
- biology, environmental factors 6076
- cassava, Congo 6565
- control
  - biological control 5541
  - chemical control 5541, 9814
- ecology, population dynamics 2576
- grapes 5541
- predators 2576, 5541, 6565
- watermelons, Honshu 2576

***Tetranychus lintearius***

- biology, development, models 6847
- prey, *Stethorus bifidus* 6020
- Ulex europaeus* 6847

***Tetranychus ludeni***

- control, chemical control 5513
- ecology, population dynamics 5513
- okras, Bihar 5513
- Phaseolus*, Portugal 6542
- predators 5513

***Tetranychus macfarlanei***

- biology, life cycle 11838
- crops 11830
- okras 11838
- plant extracts, effects 11830

***Tetranychus mcDanieli***

- control, biological control 1558
- grapes, France 1558

***Tetranychus merganser***

- distribution, China 1830
- Thalictrum*, Shanghai 1830

***Tetranychus neocaledonicus***

- cassava 4483
- Congo 6565
- predators 6565

***Tetranychus okinawanus***

- food plants, Ryukyu Archipelago 10107
- taxonomy, new species 10107

***Tetranychus pacificus***

- biology, life tables 711
- control
  - biological control 11880
  - chemical control 12028
- cotton 711
- ecology, interspecific competition 11880
- grapes
  - California 11880
  - resistance 11880
- monitoring 12028
- roses, California 12028

***Tetranychus quercivorus***

- biology, sex ratio 10238
- genetics
  - hybridization 10238
  - incompatibility 10938
  - reproduction 6009
- Japan 6009

***Quercus crispula*, Japan 10938*****Tetranychus sayedi***

- cassava, Congo 6565
- predators 6565

***Tetranychus turkestani***

- control, chemical control 12028
- monitoring 12028
- roses, California 12028

***Tetranychus urticae***

- acaricides
  - effects 434, 4271, 4276, 11599
  - resistance 2279, 2724, 4579, 9999
  - toxicity 436, 4258, 6342, 7534, 7540, 9563-9565, 9597, 11602
- agricultural chemicals, toxicity 2392
- almonds, California 6700
- apples
  - Germany 6642, 10842
  - Korea Republic 2550, 5526, 7811
  - New York 4553
  - resistance 7812, 7818
  - South Africa 5522, 8763
  - Switzerland 1540, 5528
  - Washington 8757

**atmospheric pressure, effects 6051****azadirachtin, toxicity 11991****biochemistry, enzymes 87, 5857****biology 1548, 8740, 8763, 11917****behaviour 206, 3996, 4271, 4477, 6051, 10618, 10717****diapause 4005****environmental factors 7811****life history 9948****reproduction 185, 9141****black currants, Poland 1553****cassava, Colombia 2515****control 4544, 6652, 10049, 11866****biological control 1714, 4553, 4573, 9852, 9859, 12049****chemical control 1548, 1553, 2226, 2550, 5522, 6670, 10980, 11868, 11917****integrated control 5517, 6700, 11870****physical control 7834****controlled atmospheres, effects 10463****cotton****New South Wales 9948, 10923****resistance 8845, 10921****crops, resistance 2399****cucumbers 4355****cut flowers 10049****diets 8763****ecology****habitats 10923****life tables 2279****models 3136****population density 12024****population dynamics 2576, 5526****Europe 4005****food plants 8740****USA 10717*****Tetranychus urticae* cont.****fruits**

- China 7806
- damage 7806
- South Africa 11841

**genetics**

- mitochondrial DNA 8201
- population genetics 87

***Gerbera jamesonii* 1714****grapes**

- Sao Paulo 4579
- Ukraine 6670

**groundnuts 5394****hazelnuts**

- damage 11917
- Poland 11917

**Honshu 9563-9565****hops, Oregon 12049****insecticides, effects 1710, 10618****kairomones 8263****maize 10618****man, allergies 8355-8356****natural enemies 5522****ornamental plants, nurseries, California 9999****pathogens 2515, 6247, 9502****peaches, Italy 1548****pears**

- Australia 8767
- damage 8767
- Washington 6652

***Pelargonium hortorum*, resistance 10011****pesticides**

- resistance 7527
- toxicity 4251

***Phaseolus lunatus* 4477*****Phaseolus vulgaris* 1178****damage 9756****plant extracts, effects 8487****pome fruits, Victoria 5517*****Populus tremuloides* 11991****predators 189, 311, 323, 614, 2576, 3136, 3200, 4098, 4121, 4124, 4355, 5173, 6642, 7334, 7984, 8241, 8263, 8275-8277, 8390, 8740, 9144, 9438-9439, 11841, 12024*****Pueraria lobata*, Japan 614****pyrroles, toxicity 5279****raspberries****British Columbia 9852****Switzerland 11866****rearing techniques 1178*****Ribes*, certification 10862****roses 1710, 3200, 8263****New York 10980, 12024****Sao Paulo 2724****sampling 10980****strawberries 87****Finland 7834****Florida 4573, 11868****Italy 11870****Oregon 9859****resistance 8771****sweet potatoes****damage 11801****Southern Africa 11801****Taiwan 2226*****Trifolium repens*, North Carolina 5394****vegetables****damage 1515****Poland 1515****watermelons, Honshu 2576*****Tetranychus viennensis*****apples****Anhui 2557****Beijing 8761****control 11864****distribution, Slovakia 7280****ecology****distribution 2557, 8761****population dynamics 9344****forecasting 9840****peaches, Ukraine 11864****tree fruits, China 9344*****Tetrao urogallus*, diets, Lepidoptera 11470*****Tetraonyx*****biology 6032****hosts, Apidae 6032****Mexico 6032**



- Tetrapleura tetraptera**  
extracts  
control, *Zonocerus variegatus*, cassava 608  
molluscicides 8957  
physical properties 8957  
insecticidal properties 608
- Tetraponera attenuata**  
biology, nests 5630  
*Gigantochloa scorteichinii*, Malaysia 5630  
*Kermicus wroughtoni*, symbiosis 5630
- Tetrastichus**  
auberghines, fields, Himachal Pradesh 9816  
*Crataegus*, habitats, Washington 2746  
fields, habitats, Maharashtra 5153  
figs, orchards, Iran 3548  
hosts  
    *Ceroplastes rusci* 3548  
    *Chrysoperla carnea* 5153  
    *Contarinia sorghicola* 5428  
    *Epilachna varivestis* 8694  
    *Epilachna vigintioctopunctata* 9816  
    *Lemyra* 700  
    *Nanophyes* 8983  
    *Rhagoletis pomonella* 2746  
insecticides, effects 5428  
*Phaseolus*, fields, El Salvador 8694
- Tetrastichus chrysopae**  
biology 9421  
hosts, *Chrysoperla rufilabris* 9421
- Tetrastichus coccinellae** (see *Oomyzus scaposus*)
- Tetrastichus galactopus** (see *Baryscapus galactopus*)
- Tetrastichus gallerucae** (see *Oomyzus gallerucae*)
- Tetrastichus giffardianus**  
guavas, orchards, Hawaii 8795  
hosts, *Bactrocera dorsalis* 8795
- Tetrastichus howardi**  
control, *Spodoptera litura*, potatoes 1493  
potatoes, fields, Karnataka 1493
- Tetrastichus incertus**  
biology 3229  
hosts, *Hypera postica* 3229, 4460  
lucerne, fields, Minnesota 4460
- Tetrastichus pachydiplosisae**, taxonomy, synonyms, *Aprostocetus procerae* 8092
- Tetrastichus procerae**, taxonomy, to *Aprostocetus procerae* 8092
- Tetrastichus purpureus** (see *Aprostocetus purpureus*)
- Tetrastichus schoenobii**  
hosts, *Scirpophaga incertulas* 5441  
rice, fields, Indonesia 5441
- Tetrastichus sempronius**  
fields, habitats, Maharashtra 5153  
hosts, *Chrysoperla carnea* 5153
- Tetrastichus sokolovskii** (see *Oomyzus sokolovskii*)
- Tetratomidae**  
distribution, Slovakia 7281  
indicator species 7281
- Tetraviridae**  
genetics, genes 10411  
hosts, *Helicoverpa armigera* 10411
- Tetreauresta obscuriventris**  
control, *Elephantopus mollis* 11011  
*Elephantopus mollis*, Pacific Islands 11011
- Tetrigidae**  
morphology 3744  
taxonomy 3744
- Tetropium castaneum**  
biology, reproduction 10974  
*Picea abies*, Norway 10974
- Tetragonia cantans**  
distribution, Netherlands 1146  
physiology, sound production 990  
*Tetragonia viridissima*, hybridization 6004
- Tetragonia viridissima**  
physiology, sound production 990  
*Tetragonia cantans*, hybridization 6004
- Tettigoniidae**  
Australia 1802  
biology, reproduction 949  
East Asia 8060  
ecology 3009  
grasslands, Nebraska 2020  
physiology, sense organs 3175
- Tettigoniidae cont.**  
Poland 3009  
predators 2020  
taxonomy 1802, 8060
- Teucrium**, insecticidal properties 2735
- Textiles**, insect pests 8953
- Thaia oryzivora**  
biology, life history 3463  
rice, Bangladesh 3463
- Thailand**  
auberghines, *Thrips palmi*, natural enemies 7797  
bamboos, insect pests 11008  
*Bambusa multiplex*, *Lepidomyctides nagaii* 6836  
Coccoidea, pathogens 6239  
coffee  
    *Xylotrechus quadripes* 6727  
    parasitoids 4644  
Coleoptera 6942, 6946  
cotton, *Helicoverpa armigera* 11970  
crops, *Bactrocera pyrifoliae* 9898  
forest trees, insect pests 8889  
Hemiptera, pathogens 10415  
insecticides, safety 423  
insects 11445  
lakes, insecticide residues 6383  
*Perna viridis*, pesticide residues 10606  
pesticides, usage 3325  
rice, *Nilaparvata lugens* 7705  
*Rivellia* 4048  
*Tadius erirhinoides* 12040  
*Thyrsostachys siamensis*, insect pests 2738  
*Varroa sinhai* 3790
- Thalassodes veraria**, mangoes, West Bengal 5558
- Thalictrum**, *Tetranychus merganser*, Shanghai 1830
- Thanasimus**  
biology, behaviour 2390  
*Pinus sylvestris*, habitats, Sweden 2390  
prey, *Tomicus piniperda* 2390
- Thanasimus dubius**, prey, Scolytidae 11976
- Thanasimus femoralis**, taxonomy 8314
- Thanasimus formicarius**  
prey, Coleoptera 8916  
taxonomy 8314
- Thanasimus pectoralis**  
distribution, Germany 8314  
taxonomy 8314
- Thanasimus undatulus**  
attractants 9540  
Oregon 9540  
prey, *Dendroctonus pseudotsugae* 9540
- Thanatephorus saskii**, *Nilaparvata lugens*, interactions 8668
- Thasus**, taxonomy 9065
- Thasus neocalifornicus**  
*Prosopis velutina*, USA 9065  
taxonomy, new species 9065
- Thaumaglossa rufocapillata**  
biology 4119  
*Tenodera*, interactions 4119
- Thaumetopoea pityocampa**  
biochemistry, pheromones 9204  
biology 763  
behaviour 11314  
Greece 2872  
morphology 2872  
pheromones, inhibitors 10173  
*Pinus pinaster*  
    damage 7940  
    France 7940  
*Pinus sylvestris*, France 763  
poisoning, dogs 2101, 6156  
Spain 10173
- Thaumetopoea wilkinsoni**  
parasitoids 1696  
*Pinus*, Israel 1696
- Thea sinensis** (see Tea)
- Theba pisana**  
biochemistry, enzymes 435  
biological control agents, evaluation 353  
Europe 1132  
France 353  
molluscicides, toxicity 435  
parasitoids 353  
physiology, water relations 1132
- Thecla anna**, Colombia 5096
- Thecla candidus**, Colombia 5096
- Thecla episcopalis**, Colombia 5096
- Thecla rhapsissima**, Colombia 5096
- Theclinesthes onycha**, forest trees, Australia 10932
- Thecodiplosis brachyntera**  
control 2705  
ecology 2705  
morphology 2705  
*Pinus sylvestris*, Europe 2705
- Thecodiplosis japonensis**  
control 2705  
ecology 2705  
morphology 2705  
*Pinus*, East Asia 2705
- Thelephora terrestris**, *Proisotoma minuta* 5676
- Theobroma**, pollinators 4646
- Theobroma cacao** (see Cocoa)
- Theobroma grandiflora**, *Conotrachelus humeropicus*, Rondonia 10911
- Theophylline**, insecticides, interactions 5283
- Theorema sapho**, Colombia 5096
- Thera obeliscata**, Spain 2028
- Theretra latreilli**  
biology, life cycle 3667  
food plants, Australia 3667
- Theridiidae**  
biology, behaviour 2579  
*Citrus*, orchards, South Africa 2579  
ecology, population dynamics 1417, 11929  
Mexico 5149  
monitoring, traps 11929  
olives, orchards, Italy 11929  
predators 5149  
prey  
    *Atherigona soccata* 1417  
    *Tetranychus cinnabarinus* 10371  
    *Trioza erytreae* 2579  
sorghum, fields, Burkina Faso 1417
- Theridion grallator**, biology, behaviour 6057
- Theridion ovatum** (see *Enoplognatha ovata*)
- Theridion positivum**  
Mexico 5149  
predators 5149
- Therioaphis**  
*Ononis*, Israel 5398  
parasitoids 5398
- Therioaphis trifolii form maculata**  
biology, life tables 10751  
lucerne, resistance 10751
- Thermobia domestica**, biochemistry, enzymes 4921
- Theronia zebra**  
China 1219  
hosts, *Dendrolimus punctatus* 1219
- Thesprotia macilenta**, biology, life cycle 7022
- Thiazole-5-carboxamides**  
synthesis 7540  
toxicity, *Tetranychus urticae* 7540
- Thidiazuron**  
control  
    *Anthonomus grandis*, cotton 8831  
    *Bemisia tabaci*, cotton 3615
- Thimet** (see Phorate)
- Thinopyrum**, *Aceria tulipae*, resistance 1421
- Thiocyanate**, effects, *Locusta migratoria* 2932
- Thiocyclam hydrogen oxalate**  
phytotoxicity, wheat, seeds 11723  
toxicity, *Deroceras reticulatum* 11723
- Thiodan** (see Endosulfan)
- Thiodemeton**  
synergists, interactions 5283  
toxicity, *Sitophilus oryzae* 5283
- Thiodicarb**  
control  
    *Aphis gossypii*, cotton 9960  
    *Chrysodeixis includens* 1474  
    soybeans 7731  
    Collembola, *Brassica* 6578  
    insect pests, cowpeas 8704  
    Noctuidae, cotton 11969  
    Pentatomidae, rice 1460  
    Tenebrionidae, field crops 5396
- effects  
    rats 2331  
    soil, microorganisms 2363  
    *Somaticus* 4415  
formulations 11968



**Thiodicarb** *cont.*

- mixtures, control, Noctuidae, cotton 11969
- nontarget effects, predatory insects 1633
- phytotoxicity, wheat, seeds 11723
- resistance, *Heliothis virescens* 9584, 10555-10556
- synergism 7731
- toxicity
  - Braconidae 10587
  - Deroceras reticulatum* 11723
  - Eulophidae 7577
  - Heliothis virescens* 11968
  - Ostrinia nubilalis* 9579

**Thiofanox**

- control, Aphididae, sugarbeet 698
- resistance, *Plutella xylostella* 10558
- toxicity, *Theba pisana* 435

**Thiometon**

- control
  - Uroleucon carthami*, safflower 3580
  - Zeuzera pyrina*, olives 1604
- resistance, *Aphis gossypii* 10551

**Thiophanate**, mixtures, control, *Stenotarnemus spinki*, rice 9720**Thiophanate-methyl**

- control, *Tetranychus kanzawai*, grapes 5541
- nontarget effects, *Phytoseiulus persimilis* 5541

**Thiosulfuric acid S,S'-[2-(dimethylamino)-1,3-propanediyl] ester disodium salt**

- resistance, *Plutella xylostella* 9553
- control, *Scirpophaga incertulas*, rice 7491
- resistance
  - Cnaphalocrocis medinalis* 10730
  - Lepidoptera 6339
- toxicity, *Plutella xylostella* 10669

**Thiram**

- control, *Ophiomyia phaseoli*, *Phaseolus* 10770
- effects, *Sitophilus oryzae* 6889

**Thirmida discinota**

- morphology, larvae 4896
- Passiflora*, Venezuela 4896
- taxonomy 4896

**Thitarodes baimaensis**, morphology, sensilla 8102**Thlaspi arvense**, Syrphidae, Switzerland 2759**Thlaspi montanum** var. *montanum*, *Pieris rapae*, resistance 792**Thomisidae**

- ecology, population dynamics 1417, 5167, 11929
- fields, habitats, Mississippi 5167
- lucerne, fields, Libya 3486
- monitoring, traps 5167, 11929
- olives, orchards, Italy 11929
- prey, *Atherigona soccata* 1417
- sorghum, fields, Burkina Faso 1417

**Thoracotermes macrothorax**

- ecology, soil 8856
- forests, Congo 8856

**Thraustotheca clavata**, insecticides, effects 7591**Threonine**, effects, *Bactrocera cucurbitae* 7029**Thriambus reynaudi**

- sugarcane, Reunion 692
- taxonomy, new species 692

**Thripidae**

- biology, overwintering 9279
- cassava, fields, Congo 6565
- Central Europe 3779
- culinary herbs, Florida 6832
- food plants, North Carolina 9279
- grain legumes
  - resistance 587
  - Rwanda 587
- morphology 6977
- Philippines 6977
- plant pathogens, transmission 5399, 7783
- predators 4124
- prey, Aphididae 6565
- Taiwan 7292
- taxonomy 3737, 7318
- tomatoes, Mexico 7783

**Thrips** (see Thysanoptera)**Thrips**

- crops, damage 1407
- Jammu and Kashmir 1407
- taxonomy 919

**Thrips angusticeps**

- cabbages, France 1505
- nectarines
  - damage 6661
  - Spain 6661
- predators 1505

**Thrips atratus**, grasslands, Poland 8672**Thrips aurulentus**

- Cronartium comandrae* 919
- taxonomy, new species 919

**Thrips calcaratus**, *Tilia americana*, resistance 12001**Thrips crawfordi**

- food plants 919
- taxonomy, new species 919

**Thrips fallaciosus**

- food plants 919
- taxonomy, new species 919

**Thrips hawaiiensis**, mangoes, Andhra Pradesh 4596**Thrips intricatus**

- Salix* 919
- taxonomy, new species 919

**Thrips konoi**

- food plants 919
- taxonomy, new species 919

**Thrips major**

- biology 1548
- control, chemical control 1548
- peaches, Italy 1548

**Thrips nelsoni**

- Abies lasiocarpa* 919
- taxonomy, new species 919

**Thrips nigropilosus**

- biology 7006
- development 529
- environmental factors 4014
- food plants 529
- morphology 7006
- Rhododendron*, Georgia 1711

**Thrips obscuratus**

- Capsicum*, New Zealand 6613
- control

- biological control 6613
- controlled atmospheres 6266

- Cytisus scoparius*, New Zealand 6849
- kiwifruits, New Zealand 5546, 8777

- plant pathogens, transmission 5546, 8777

**Thrips orientalis**

- Citrus*, Florida 5554
- distribution, USA 5554

**Thrips palmi**

- aubergines
  - Honshu 9814
  - Japan 7796
  - Thailand 7797
- biological control agents, evaluation 7796
- biology 1411
- life cycle 624
- Citrus*, Florida 5554
- control 1411
- chemical control 5462, 9814, 11775
- distribution, USA 5554
- field crops, Venezuela 624
- food plants, Venezuela 5462
- greenhouse crops, Czech Republic 1411
- insecticides, resistance 10562
- Japan 10562
- parasitoids 7797
- plant extracts
  - antifeedants 632
  - toxicity 11583
- vegetables, Florida 11775

**Thrips paramadronii**

- Cytisus* 919
- taxonomy, new species 919

**Thrips pruni**

- Prunus emarginata* 919
- taxonomy, new species 919

**Thrips pseudoflavus**

- food plants 919
- taxonomy, new species 919

**Thrips setosus** (see *T. temporatus*)**Thrips stannardi**

- Fraxinus* 919
- taxonomy, new species 919

**Thrips tabaci**

- Allium*, Germany 10796
- asparagus
  - commodities, New Zealand 6597
  - South Africa 5502
- biology 1411, 11834
- environmental factors 4505
- overwintering 9279
- cabbages
  - Denmark 621
  - France 1505
- Capsicum*, New Zealand 6613
- control 1411, 6597
- biological control 6613
- chemical control 616, 2520-2521, 4504, 7765, 9849
- cultural control 621
- integrated control 10796
- cucumbers 11834
- ecology, population dynamics 6085, 9755
- food plants, North Carolina 9279
- grapes
  - Chile 9867
  - damage 9867
- greenhouse crops
  - Czech Republic 1411
  - Russia 2529
- Honshu 6085
- leeks, Belgium 616
- nectarines
  - Chile 9849
  - damage 6661, 9849
  - Spain 6661
- onions
  - economic thresholds 4504
  - Haryana 2521
  - India 7765
  - Maharashtra 2520
  - Parana 4504-4505
  - Quebec 8721
- Phaseolus vulgaris*, Maryland 9755
- plant pathogens, transmission 9279
- predators 1505, 8390
- sampling 8721

**Thrips temporatus**

- ecology, population dynamics 2576
- plant pathogens, transmission 3529
- Solanaceae 3529
- watermelons, Honshu 2576

**Thripsaphis balli**

- Cyperaceae, China 6956
- distribution, China 6956

**Thripsaphis cyperi wulingshanensis**

- Cyperus*, Hebei 6956
- taxonomy, new subspecies 6956

**Thripsaphis ossiannilisoni hebeiensis**

- Cyperus*, Hebei 6956
- taxonomy, new subspecies 6956

**Thrypticus smaragdinus**, distribution, UK 7290**Thuja**

- Argyresthia*, Switzerland 10979
- Coleoptera, Switzerland 12031
- Phloeosinus*, Austria 10977

**Thuja orientalis**

- Cinara cupressi*, Bulgaria 755
- Neopitrimerus playeladi*, Beijing 10104

**Thuja plicata**, Scolytidae, British Columbia 6778**Thuricide** (see *Bacillus thuringiensis* subsp. *aizawai*)**Thuricide HP** (see *Bacillus thuringiensis* subsp. *kurstaki*)**Thuringiensin**

- control, *Helicoverpa armigera*, cotton 10912
- nontarget effects, predatory insects 10912

**Thylacitinae**

- biology, seasonal abundance 4571
- raspberries, Quebec 4571

**Thyme** (see *Thymus vulgaris*)**Thymelicus lineola**, distribution, Manitoba 2034**Thymol**

- toxicity
  - Apis mellifera* 8571
  - Varroa jacobsoni* 8571

**Thymus praecox**, *Chrysolina cerealis*, UK 8287**Thymus serpyllum**, oils, effects, *Acanthoscelides obiectus* 5692



**Thymus vulgaris**

*Coleophora pyrenaica*, Spain 584  
extracts, repellents, *Helix aspersa* 7991  
oils, effects, *Acanthoscelides obtectus* 5692

**Thyocyclam**, effects, *Frankliniella occidentalis* 11581**Thyrecephalus interocularis**

bananas, fields, Kenya 5550  
biology, development 5550  
prey, *Cosmopolites sordidus* 5550

**Thyrididae**

collections 6974  
Korea Democratic People's Republic 6974

**Thyridopteryx ephemeraeformis**

*Juniperus*  
Kentucky 7969  
varietal susceptibility 7969

**Thyridota dispar**

Namibia 9288  
songs 9288

**Thyrinteina arnobia**, *Eucalyptus*, Brazil 1660**Thyrinteina leucoceraea**

*Eucalyptus*, Brazil 1660  
*Eucalyptus urophylla*, Minas Gerais 4694

**Thyroxine**, effects, *Bombyx mori* 8476**Thysostachys siamensis**, insect pests, Thailand 2738**Thysanoplasia orichalcea**

biology 8693  
cabbages, Himachal Pradesh 4513  
ecology, population dynamics 4513  
fodder plants, India 1469  
insecticides, toxicity 8684  
natural enemies 1469  
physiology, nutrition 6706  
soyabeans  
resistance 8693  
Zimbabwe 8691  
sunflowers 6706  
*Trifolium alexandrinum*, Himachal Pradesh 8684

**Thysanoptera**

biology 3929, 7163  
overwintering 9279  
cabbages, France 1505  
*Capsicum*, Italy 10831  
chrysanthemums, Honshu 10014  
control  
biological control 10465, 10863, 10990  
chemical control 3424, 8700  
cultural control 10795  
cotton, resistance 2630  
crops  
Japan 5813  
Sweden 1300  
Cycadaceae, Australia 5622  
distribution  
Manipur 10312  
Puerto Rico 10326  
Slovenia 3127  
ecology 3929  
arthropod communities 11403  
population dynamics 10695  
models 5113  
*Eucalyptus*, habitats, Italy 5639  
fertilizers, effects 10695  
field crops, Estonia 10695  
food plants, North Carolina 9279  
fruit vegetables, Austria 10465  
fungicides, effects 2324  
greenhouse crops, Georgia 787  
kiwifruits, France 1561  
leeks, Belgium 10795  
lentils, fields, Turkey 1482  
morphology 2873, 6977  
ornamental plants  
Austria 10465  
Germany 10990  
parasitoids 10014  
pathogens 11516  
Philippines 6977  
phylogeny 2873  
predators 10, 1505, 5813  
prey  
*Atherigona soccata* 2440  
*Phoracantha semipunctata* 5639  
rice, Philippines 11743

**Thysanoptera cont.**

Senegal 8094  
sorghum, fields, Burkina Faso 2440  
strawberries, Germany 10863  
Taiwan 7292  
taxonomy 787, 5554, 6977, 8094, 11743  
*Vigna radiata*, Indian Punjab 8700  
wheat, Germany 2324

**Tibicen**

North America 11318  
sound production 11318

**Tibicen linnei**

biology, sound production 5026  
songs 5026

**Tibicinidae**

North America 11318  
sound production 11318

**Tibilis**, taxonomy 3768**Tibraca limbativentris**

biology, life cycle 7695, 9725  
control, chemical control 1460  
natural enemies 9725  
pathogens 8663  
rice 7695

Colombia 9725

Rio Grande do Sul 1460

Santa Catarina 8663

**Tilapia nilotica** (see *Oreochromis niloticus*)**Tilia**

*Bucculatrix thoracella*, Netherlands 10952  
*Salebriopsis albicilla*, Spain 4685

**Tilia americana**

extracts, effects, *Lymantria dispar* 736  
*Lymantria dispar*, resistance 736  
*Thrips calcaratus*, resistance 12001

**Tilia cordata**

*Eucallipterus tiliae*  
California 8887  
resistance 8887  
*Hyphantria cunea*, Italy 11703  
Lepidoptera, Finland 2657  
*Oxycaenus lavatae*, Yugoslavia 1680  
*Pulvinaria regalis* 5634

**Tilia europaea**

Eriophyidae  
galls 7930  
UK 7930  
*Eucallipterus tiliae*  
California 8887  
resistance 8887  
**Tilia japonica**, *Pidonia tsuyukii*, Honshu 5707

**Tilia platyphyllos**

*Eucallipterus tiliae*  
California 8887  
resistance 8887

**Tiliaceae**, arthropods, UK 2397**Tillage**

effects  
beneficial insects 2130  
Carabidae 8375  
*Diloboderus abderus* 7246  
entomogenous fungi 2485  
pests, cereals 9671  
Termitidae 7678

**Tillandsia, Metamasius callizona**, North America 5385**Tillandsia utriculata, Metamasius callizona**, Florida 5385**Timaspis luteipes**

taxonomy  
from *Aylax* 4844  
synonyms, *T. papaveris* 4844  
**Timaspis papaveris**, taxonomy, synonyms, of *T. luteipes* 4844  
**Timaspis pilicornis**, taxonomy, from *Aylax* 4844

**Timavia amoena**, tea, plantations, Hunan 8382**Tinda indica**, cashews, Andaman and Nicobar Islands 1586**Tinea dubiella**

growth regulators, effects 6875  
plant extracts, effects 8953  
textiles 8953

**Tinea pellionella**

plant extracts, effects 4792  
wool 4792

**Tinea translucens**

plant extracts, effects 4792

**Tinea translucens cont.**

wool 4792

**Tineoidea**

ecology, population dynamics 728  
forests, Kalimantan 728  
monitoring, traps 728

**Tineola bisselliella**

biology, environmental factors 239  
control, controlled atmospheres 1762  
growth regulators, effects 6875  
insect repellents, toxicity 526  
museums, Germany 1762  
plant extracts, effects 4792, 8953  
textiles 8953  
wool 4792

**Tingidae**, distribution, Israel 2026**Tingis tecomae, Tabeuia ochracea**, Minas Gerais 3647**Tinocallis takachihoensis**, distribution, Korea Republic 6964**Tinospora smilacina**

*Eudocima*, Queensland 5708  
*Eudocima fullonia* 800

**Tiphiidae**

hosts  
*Phyllophaga anxia* 302  
Scarabaeidae 10007  
Quebec 302  
taxonomy 10007

**Tipula**

barley 8640  
biology, life history 3454  
control, chemical control 3454, 8640  
ecology, population dynamics, models 535  
forecasting 535  
Korea Republic 6951  
rice, Heilongjiang 3454  
taxonomy 6951

**Tipula luteipennis**, physiology, sense organs 3843**Tipula oleracea**

biological control agents, evaluation 7415  
pathogens 2178, 7395, 7405

**Tipula pagana**, physiology, sense organs 3843**Tipula paludosa**

biological control agents, evaluation 7415  
biology 5450  
cell lines, pathogens 2171  
control 5450  
food plants 7722  
grasses, Washington 5450  
lawns and turf, UK 10988-10989  
pathogens 2171, 2178  
physiology, sense organs 3843, 7083

**Tipulidae**

biology 1071  
dispersal 3928  
control, chemical control 2472  
evolution 928  
grasslands, Netherlands 2472  
Norway 1071

**Tirumala**

biochemistry, secretions 4937  
Kenya 4937

**Tischeria decidua**

distribution, Japan 6757  
*Quercus*, Japan 6757

**Tischeria naraensis**

*Quercus*, Japan 6757  
taxonomy, new species 6757

**Tischeria quercifolia, Quercus**, Japan 6757**Tüthonia diversifolia**, extracts, antifeedants, insect pests 10016**Tüthrona major**, biology, life cycle 7022**Toads**, prey, *Eremothermes paradoxalis* 11465**Toarrow-BT** (see *Bacillus thuringiensis* subsp. *kurstaki*)**Tobacco** (*Nicotiana tabacum* and *N. rustica*)

Aphididae, Taiwan 2622  
*Bacillus thuringiensis*, transgenic plants 7500

*Bemisia tabaci*, Costa Rica 629  
commodities

insect pests  
control, books 8040  
Costa Rica 3704

*Lasioderma serricorne* 6898, 12075  
Andhra Pradesh 8019



**Tobacco cont.**

- Epitrix hirtipennis*, Greece 6730  
extracts  
insecticidal properties 8958  
toxicity, *Tribolium castaneum* 8958  
*Faustinus apicalis*, Colombia 5600  
fields, natural enemies, Greece 8826  
genetic engineering, pest resistance 2621  
habitats, *Cotesia congregata*, Maryland 4641  
*Helicoverpa assulta* 7535  
*Heliothis* 10265  
Lepidoptera, resistance 5269  
*Manduca quinquemaculata*, Ontario 702  
*Manduca sexta*  
Maryland 4641  
resistance 703, 2233, 8743, 9944  
*Myzus nicotianae*  
Greece 8826  
North Carolina 4647  
Rio Grande do Sul 8827  
*Myzus persicae* 9519  
Karnataka 5599  
resistance 9945  
odours, effects, *Myzus persicae* 7981  
pest resistance, genetic engineering 7885, 9946  
pesticides, legislation 7601  
*Phthorimaea operculella*  
China 2620  
Turkey 11710  
*Spodoptera litura*, Tamil Nadu 3609  
transgenic plants, toxicity, Noctuidae 7500  
*Trialeurodes vaporariorum* 8261  
**Tobacco etch potyvirus**  
vectors  
Aphidoidea 7783  
*Myzus persicae* 3286  
**Tobacco leaf curl bigeminivirus**, vectors,  
*Bemisia tabaci* 2530  
**Tobacco vein mottling potyvirus**, vectors,  
*Myzus persicae* 3286  
**Tocoyena formosa**, extracts, effects, *Atta sexdens* 7999  
**Togo**  
cotton, *Cryptophlebia leucotreta* 8619  
food plants, *Mussidia nigrivenella* 8619  
mangoes, *Rastrococcus invadens* 1562  
*Prostephanus truncatus* 7436  
**Tolazoline**, effects, *Spodoptera litura* 7033  
**Tolypocladium**  
hosts, *Agrotis segetum* 7430  
taxonomy 4157  
**Tolypocladium cylindrosporum**, control,  
*Sylvicola cinctus* 389  
**Tomatine**, effects, *Manduca sexta* 5858  
**Tomato geminivirus**, vectors, *Bemisia tabaci* 626  
**Tomato leaf curl bigeminivirus**, vectors,  
*Bemisia tabaci* 7782  
**Tomato mottle geminivirus**  
vectors  
*Bemisia argentifolii* 3282  
*Bemisia tabaci* 6603  
**Tomato spotted wilt tospovirus**  
genetics, RNA 11516  
hosts, Thysanoptera 11516  
vectors  
*Frankliniella* 8741  
*Frankliniella occidentalis* 3672, 5399, 6263, 7476, 10831  
*Frankliniella schultzei* 8736  
Thripidae 7783  
*Thrips temporatus* 3529  
**Tomato spotted wilt virus**, vectors,  
Thripidae 9279  
**Tomato yellow leaf curl bigeminivirus**  
vectors  
*Bemisia tabaci* 6602-6603, 10826  
reviews 10825  
**Tomato yellow mosaic bigeminivirus**, vec-  
tors, *Bemisia tabaci* 2534  
**Tomatoes** (*Lycopersicon esculentum* and *L. pimpinellifolium*)  
acaricides, residues 1522  
*Agrotis ipsilon* 4056  
Aleyrodidae, Israel 9956  
Aphididae  
Italy 10824  
New Zealand 6604

**Tomatoes cont.**

- arthropod pests  
control, chemical control 2528  
damage 5504  
Israel 7785  
Sao Paulo 2528  
*Bactrocera depressa*  
damage 6599  
Korea Republic 6599  
*Bemisia argentifolii* 6606, 11574  
damage 10817  
Nova Scotia 8948  
*Bemisia tabaci* 3988, 6602-6603, 7782, 7792, 10819, 10825-10826, 11822  
Costa Rica 626-630  
damage 11825  
Dominican Republic 1523  
Egypt 8738  
Guatemala 8742  
Japan 10821  
Netherlands 4759  
Venezuela 2534, 4521  
Bulgaria, conferences 10066  
*Chrysodeixis includens* 2192  
commodities  
growth regulators, residues, analysis 4068  
insecticides, residues 4523  
pesticides, residues 5736  
Egypt 633  
extracts, antifeedants, *Thrips palmi* 632  
*Faustinus apicalis*, Colombia 5600  
fields  
Miridae, Spain 7788  
*Trichogramma pretiosum*, Venezuela 4522  
*Frankliniella*  
Florida 8741  
North Carolina 9809  
*Frankliniella schultzei*, Parana 8736  
greenhouses  
*Macrolophus caliginosus*, France 1518  
predatory mites 5174  
habitats, *Cotesia congregata*, Maryland 4641  
*Helicoverpa armigera* 179  
Cote d'Ivoire 10682  
Czech Republic 10820  
damage 10820  
Himachal Pradesh 1520  
India 1521  
New Zealand 6605  
Orissa 2533  
Spain 6609, 9810  
varietal reactions 2533  
Hemiptera, Pakistan 631  
Homoptera, Egypt 8737  
insect pests 7781  
California 635  
control, integrated control 10823  
damage 6611  
Jammu and Kashmir 6601  
Mexico 7783  
resistance 635  
Russia 2529  
sampling 6610  
Sardinia 2532  
Venezuela 7784  
insecticides  
effects 3525, 9619, 9812-9813  
persistence 2192, 11824  
residues 4528, 5358, 9395  
determination 11402  
integrated pest management  
California 7789  
Nicaragua 636  
Sao Paulo 8733  
Spain 6610  
*Keiferia lycopersicella*, Jamaica 2531  
Lepidoptera  
California 6407  
Israel 4527  
resistance 5268  
*Leptinotarsa decemlineata* 8732  
New Jersey 11827  
*Liriomyza bryoniae*, Russia 11828  
*Liriomyza sativae*, Venezuela 4520  
*Liriomyza trifolii* 10275  
Japan 10355

**Tomatoes cont.**

- Macrosiphum euphorbiae*  
North Carolina 4525  
Turkey 1519  
varietal susceptibility 1519  
*Manduca sexta*  
Maryland 4641  
resistance 8743  
*Neoleucinodes elegantalis* 1516  
resistance 7791  
Sao Paulo 9811  
Venezuela 1517  
*Nezara viridula*, South Carolina 4107  
Noctuidae, resistance 2233  
odours, effects, *Cotesia glomerata* 208  
pest control  
Ontario 8480  
Pennsylvania 8731  
Poland 1513  
Venezuela 7786  
pesticides  
application 6608  
residues, determination 12067  
*Phthorimaea operculella*  
Israel 4388  
Turkey 11710  
*Phytoseiulus persimilis*, resistance 3523  
*Planococcus citri* 8739  
plant extracts, effects 1523  
*Plutella xylostella*, China 3420  
*Podisus maculiventris* 1410  
*Poeciloceris pictus* 2403  
*Rhagoletis tomatii*, Chile 10818  
*Scrobipalpus absoluta* 8735  
damage 4529  
Minas Gerais 4530  
Paraguay 10822  
resistance 3524, 7787  
Sao Paulo 2535, 4531  
*Sitotroga cerealella*, Venezuela 4522  
*Spilarcia obliqua* 9748  
*Spilostethus hospes*, India 8622  
*Spodoptera exigua*  
California 4526  
resistance 4526, 7790  
*Spodoptera littoralis* 5505  
*Spodoptera litura* 3419  
*Tetranychus cinnabarinus*, Poland 10816  
*Tetranychus urticae*  
predators 8740  
resistance 2399  
transgenics, *Bacillus thuringiensis* 634  
*Trialeurodes vaporariorum* 2240, 8734  
Beijing 11829  
damage 11823  
France 1518, 8378  
Honshu 6607  
Hungary 2733  
Italy 11826  
resistance 4524  
Uzbekistan 11823  
Turkey 1470  
varietal reactions 633  
**Tomicobia tibialis**  
biology, behaviour 7953  
hosts, *Ips pini* 7953  
*Pinus ponderosa*, habitats, California 7953  
**Tomicus minor**  
*Pinus sylvestris*  
damage 761  
Sweden 761  
**Tomicus piniperda**  
*Acanthocinus aedilis*, interactions 8916  
biology 10965  
behaviour 2390, 9991, 10964  
environmental factors 3997  
reproduction 8916  
control, chemical control 9991  
distribution, North America 6793  
ecology  
distribution 10964  
interspecific competition 6793  
population dynamics 2390  
forest trees, New York 3658  
fungi, interactions 2695  
monitoring, traps 2390, 3658  
*Pinus* 8916  
Yunnan 10965  
*Pinus sylvestris*  
damage 761, 764, 7942



**Tomicus piniperda** *cont.*

- Pinus sylvestris* *cont.*
- Finland 764
- France 2695, 7942
- Indiana 9991
- Michigan 6793
- resistance 2702
- Sweden 761, 2390, 2702
- Pinus yunnanensis*, Yunnan 10964
- predators 2390, 8916

**Tomoceros minor**, cadmium, toxicity 9543

**Tomocerus varius**, forests, Honshu 9989

**Tomotethus nigrinus**, distribution, Iran 3121

**Tonga**

- coconuts
- Graeffea crouanii* 10899
- plantations, beneficial insects 10899
- Colocasia esculenta*
- Aphis gossypii* 7489
- parasitoids 7489
- Elephantopus mollis*, *Tetreauresta obscuriventris* 11011
- Musa*, *Pentalonia nigronervosa* 7489

**Toona ciliata**

- Hypsipyla grandella*, resistance 6769
- Hypsipyla robusta* 8890
- Pakistan 8850
- Uttar Pradesh 1676

**Toria** (*Brassica campestris* var. *toria*)

- Brevicoryne brassicae* 5501
- insect pests, Himachal Pradesh 2602
- Lipaphis erysimi*, Orissa 9796
- Myzus persicae* 7774

**Torpedo nobiliana**, insecticides, effects 9615

**Torque** (see Fenbutatin oxide)

**Torreya**, *Metasequoia miris carvalhoi*, Hubei 11125

**Torreya nucifera**, *Aspidiotus cryptomeriae* 10960

**Torrubiella**, hosts, Coccoidea 6239

**Torrubiella iriomoteana**, hosts, Coccoidea 6239

**Torrubiella siamensis**, hosts, Coccoidea 6239

**Tortricidae**

- apples 5527
- avocados, commodities, New Zealand 11038
- control
- chemical control 1557, 11038
- integrated control 11870
- mating disruption 2543
- trapping 5527
- Eucalyptus cloeziana*
- damage 7913
- Minas Gerais 7913
- forests, Virginia 11986
- fruits, Europe 2543
- grapes, France 1557
- insects as food 11470
- monitoring, traps 2235, 2569
- parasitoids 11108
- strawberries, Italy 11870
- taxonomy 3737
- temperate fruits, Hungary 2235

**Tortricoidea**

- ecology, population dynamics 728
- forests, Kalimantan 728
- monitoring, traps 728

**Tortrix viridana**

- broadleaves, Ukraine 1653
- control, chemical control 10940
- parasitoids 1653
- predators 10940
- Quercus pyrenaica*, Spain 10940
- Quercus robur*
- damage 1665
- Poland 1665

**Torymidae**

- ecology, habitats 4462
- hosts, insect pests 4462
- sesame
- Burkina Faso 8812
- varietal susceptibility 8812
- Trifolium pratense*, habitats, Germany 4462

**Toryminae**, taxonomy 11098

**Torymus**

- biology, population dynamics 9993
- hosts, *Kaltenbachiola strobi* 9993
- Picea abies*, forests, Switzerland 9993

**Torymus** *cont.*

- taxonomy 11098
- Torymus aceris**
- Acer*, forests, Europe 1826
- hosts, *Megaselia giraudii* 1826
- taxonomy, new species 1826
- Torymus argei**
- Germany 1826
- hosts, *Arge* 1826
- taxonomy, new species 1826
- Torymus beneficus**
- biochemistry, enzymes 7045
- biology, development 4910
- fields, habitats, Japan 7045
- hosts, *Dryocosmus kuriphilus* 7045
- morphology 7045
- Torymus chloromerus**
- biology, life cycle 5155
- ecology, population dynamics 5155
- hosts, *Dasineura gledüchia* 5155
- Torymus confinis**
- Germany 1759
- hosts, *Dasineura urticae* 1759
- Torymus erucarum**, taxonomy, synonyms, *Diplolepis fuliginosa* 9049
- Torymus geranii**
- hosts, *Dryocosmus kuriphilus* 10366
- Korea Republic 10366
- Torymus grahami**
- Europe 1826
- taxonomy, new species 1826
- Torymus laricis**
- hosts, *Dasineura laricis* 1826
- Larix*, forests, Europe 1826
- taxonomy, new species 1826
- Torymus lythri**
- hosts, Cecidomyiidae 1826
- taxonomy, new species 1826
- Torymus micrurus**
- Europe 1826
- taxonomy, new species 1826
- Torymus nemorum**
- Europe 1826
- taxonomy, new species 1826
- Torymus nigratarsus**
- hosts, *Taxomyia taxi* 1134
- Taxus baccata*, habitats, UK 1134
- Torymus pascuorum**
- Cytisus scoparius*
- Europe 1826
- galls 1826
- taxonomy, new species 1826
- Torymus rhamni**
- hosts, Cecidomyiidae 1826
- taxonomy, new species 1826
- Torymus sinensis**
- biochemistry, enzymes 7045
- biology, development 4910
- control, *Dryocosmus kuriphilus*, chestnuts 7860
- ecology, population dynamics 7860
- fields, habitats, Japan 7045
- hosts, *Dryocosmus kuriphilus* 7045, 10366
- Korea Republic 10366
- morphology 7045
- Torymus spaici**
- Europe 1826
- taxonomy, new species 1826
- Torymus urticae** (see *T. confinis*)
- Totiviridae**, hosts, Pentatomidae 10434
- Toumeyella lignumvitae**
- Formicidae, interactions 11
- Guaiacum sanctum*, Florida 11
- predators 11
- taxonomy, new species 11
- Toumeyella pini**
- insecticides, resistance 7945
- Pinus taeda*
- Louisiana 7945
- outbreaks 7945
- Toxaphene** (see Camphchlor)
- Toxins**
- analogues, toxicity, *Heliothis virescens* 8472
- Bacillus thuringiensis* 2196, 3265
- genetics 11491
- toxicity
- Anomala cuprea* 7456
- Lepidoptera 1268, 7463, 11498
- Plutella xylostella* 1245

**Toxins** *cont.*

- Beauveria bassiana*, effects, *Helicoverpa armigera* 11475
- Toxoptera**, predators 1069
- Toxoptera aurantii**
- biological control agents, evaluation 5256
- biology 3556
- Citrus* 4587
- Florida 4593
- Japan 3556
- control, chemical control 3584
- ecology, environmental factors 11341
- ectoparasites 9352
- groundnuts, Maharashtra 3584
- parasitoids 4593, 8366, 11898
- plant pathogens, transmission 3556, 4587
- predators 5256, 8824
- tea
- China 7883
- India 8824
- West Bengal 5593
- Toxoptera citricidus**
- biology 3556
- Citrus* 4587
- Central America 4591
- Cuba 6682
- Japan 3556
- distribution
- Caribbean 11368
- Central America 4591
- parasitoids 11898
- plant pathogens, transmission 3556, 4587, 11368
- taxonomy, nomenclature 4826
- Toxotrypana curvicauda**
- biology, reproduction 4602
- Morrenia odorata*, Florida 2588
- pawpaws 4602
- Toya propinqua**
- barley, damage 11727
- ecology, population dynamics, models 7648
- food plants, Argentina 7648
- plant pathogens, transmission 7648
- Trabala vishnou**, plant extracts, antifeedants 10016
- Trachea atriplicis**
- Beijing 5272
- monitoring, traps 5272
- Trachycarpus fortunei**, *Cephrenes augiades sperthias*, Victoria 10995
- Trachymyrmex septentrionalis**
- biology, population dynamics 4082
- Florida 4082
- New York 4082
- Trachyphloeus bifoveolatus**
- biology, seasonal abundance 4571
- raspberries, Quebec 4571
- Trachyrhachys kiowa**
- biology, behaviour 5448
- grasslands, South Dakota 9742
- interactions, arthropods 9742
- rangelands, Wyoming 5448
- Trachytes balazyi**
- taxonomy, new species 8070
- USA 8070
- Tradescantia**
- Oulema elongata* 917
- Oulema laticollis* 917
- Tradescantia fluminensis**, *Mouralia tinctorides* 705
- Tradescantia hirsuticaulis**, *Jalysus spinosus*, South Carolina 4768
- Tradescantia ohiensis**, *Mouralia tinctorides* 705
- Tradescantia pallida**, *Mouralia tinctorides* 705
- Tradescantia zebrina**, *Mouralia tinctorides* 705
- Tragus koelerioides**, *Messor capensis*, South Africa 8678
- Trail pheromones**
- Aenictus* 3827
- Ectatomma ruidum* 11193
- Lasius fuliginosus* 9413
- Megaponera foetens* 3930
- Pheidole pallidula* 7064
- Reticulitermes santonensis* 766
- Reticulitermes speratus* 2140
- Tetramorium aculeatum* 287



**Tralomethrin**

control, insect pests, soyabeans 9750  
toxicity

*Heliothis virescens* 8842  
*Rhagoletis pomonella* 9569

**Tranosema**

hosts, *Zeiraphera* 3662  
*Larix*, forests, Hebei 3662

**Transgenic plants**

effects, soil fauna 9285  
pest resistance 2232

**Transgenics**

potatoes, *Bacillus thuringiensis* 9785  
tomatoes, *Bacillus thuringiensis* 634

*Trapa natans*, insecticides, residues 10815

**Traps**

arthropods 4716  
*Ceratitis capitata* 6285, 7506  
Coleoptera, woodlands 3632  
*Diabrotica* 4425  
*Frankliniella occidentalis*, pot plants 12020  
insect pests, *Eucalyptus* 8871  
*Lycotocoris campestris*, maize, commodities 9011  
*Rhopalocera* 5114  
Scolytidae, Pinopsida 6778  
*Sogatella furcifera*, rice 6494  
bait traps  
  Acrididae, rangelands 5446  
  *Agrotis*, maize 1415  
  *Anaglyptus subfasciatus* 4372  
  *Anastrepha*, mangoes 2583  
  *Anastrepha fraterculus*  
    *Acca sellowiana* 4605  
    guavas 4598  
    peaches 4567  
  *Anastrepha grandis*, melons 8796  
  *Anomala octiescostata*, lawns and turf 1891, 2766  
  *Atherigona orientalis* 8116  
  *Bactrocera* 1292, 10490  
  *Bactrocera latifrons* 7507  
  *Carpophilus*, stone fruits 7822  
  *Ceratitis capitata*  
    Citrus 7849  
    oranges 11893  
  Coleoptera, *Eucalyptus* 3637  
  *Coptotermes formosanus* 6893  
  *Cosmopolites sordidus*, bananas 7841  
  *Delia platura* 9388  
  *Drosophila*, cherries 7824  
  Drosophilidae 1180  
  Elateridae 3309, 6289  
  Formicidae, forests 8858  
  *Glischrochilus quadrisignatus*, maize 11733  
  *Gryon pennsylvanicus* 7800  
  *Hyllobius abietis*  
    forests 7905  
    Pinus 2704  
  insect pests 5549, 11553  
  *Ips typographus*, *Picea abies* 3660  
  *Iridomyrmex humilis* 2094  
  *Linepithema humile*, Citrus 3552  
  *Macroductylus*, maize 11730  
  *Maladera matrida*, groundnuts 10900  
  *Melanotus senilis* 6288  
  *Meligethes aeneus*, sarson 7775  
  Nitidulidae, dates 6674  
  *Oryctes rhinoceros*, coconuts 3583  
  *Pheidole megacephala*, plantation crops 4642  
  *Popillia japonica* 6054  
  *Rhagoletis pomonella*, apples 516  
  *Rhynchophorus cruentatus* 3993  
  *Rhynchophorus palmarum*, oil palms 2594  
  Scolytidae 3658  
  Tephritidae  
    fruits 5548  
    subtropical fruits 7840  
  *Tomicus piniperda*, Pinus sylvestris 2390  
  Tortricidae 3536  
  *Trichoplusia ni*, cotton 10920  
  *Varroa jacobsoni* 7352  
  *Xyleborus validus*, *Cryptomeria japonica* 7964  
coloured sticky traps  
  *Frankliniella*, tomatoes 9809

**Traps cont.**

coloured sticky traps cont.  
  *Frankliniella occidentalis* 3305  
  cucumbers 9825  
  *Hoplocampa testudinea*, apples 11855  
  insect pests, greenhouse crops 9538  
  *Oncastichus goughi*, *Chamaelaucium uncinatum* 10997  
coloured traps  
  *Bactrocera oleae*, olives 6710  
  insect pests, greenhouse crops 1299  
emergence traps  
  insects  
    grasslands 4452  
    peas 9759  
flight traps  
  Byrrhidae, raspberries 6662  
  insects, forests 2649  
funnel traps, *Exomala orientalis* 1892  
light traps  
  *Agrotis ipsilon* 6084  
  *Atrijuglans hetaohei* 8465  
  *Carposina sasakii* 10889  
  *Cicadella viridis*, fruits 11840  
  coconuts, insects 3582  
  Coleoptera, *Eucalyptus* 3637  
  *Coniesta ignefusalis*, millets 8657  
  *Helicoverpa armigera*, cotton 9961  
  Heterocera 229  
  insect pests 5549, 7509  
    books 6927  
    rice 1453  
  insects, forests 728  
  Lepidoptera  
    *Capsicum annuum* 11832  
    sugarcane 11949  
  *Lymantria* 10489  
  *Maladera matrida* 3311  
  *Melanotus senilis* 6288  
  *Nephrotettix* 8291  
  Noctuidae 10300  
    cauliflowers 11809  
  *Nysius plebeius*, chrysanthemums 7979  
  *Plutella xylostella* 7236  
  *Quadricalcarifera punctatella*, *Fagus crenata* 11989  
  *Rhyzopertha dominica*, rice, commodities 8021  
  Scarabaeidae 11711  
Malaise traps  
  beneficial insects 4447  
  insects, olives, orchards 11933  
  Neuroptera 7196  
    woodlands 3633  
  Vespidae, broadleaves, forests 7911  
pheromone traps  
  *Acrobasis vaccinii*, fruit crops 7061  
  *Acrolepiopsis assectella*, leeks 97  
  *Anarsia lineatella*, *Prunus* 2564  
  *Anomala*, fruits 4546  
  *Anomala albopilosa* 4935  
  *Anomala cuprea* 266  
  *Anomala octiescostata*, lawns and turf 1891  
  *Anthonomus grandis* 2624  
  Aphididae 1394  
  *Argyrotaenia ljungiana* 11853  
  *Bactrocera* 1293  
  *Bactrocera dorsalis* 2236  
  *Bactrocera oleae*, olives 6710  
  *Bucculatrix thurberiella*, cotton 4663  
  *Cadra cautella* 2782  
  *Campylomma verbasci*, apples 6634  
  *Carpophilus*, stone fruits 7822  
  *Ceratitis*, grapes 11883  
  *Ceratitis capitata*, Citrus 7849  
  *Chilo auricilius*, field crops 2471  
  *Chilo infuscatellus*, sugarcane 7875  
  *Chilo partellus* 5273  
  *Chilo suppressalis*, rice 568, 7710, 10732  
  *Coniesta ignefusalis*, *Pennisetum americanum* 9717  
  *Conogethes punctiferalis*, Citrus 7852  
  *Croesia curvalana*, *Vaccinium* 2566  
  *Cryptoblabes gnidiella*, grapes 6669  
  *Cryptophlebia*, *Macadamia integrifolia* 11919  
  *Cryptophlebia leucotreta* 9539  
  *Cydia caryana*, pecans 4611, 9906

**Traps cont.**

pheromone traps cont.  
  *Cydia funebrana*, plums 10858  
  *Cydia molesta*, peaches 11863  
  *Cylas formicarius* 4500  
    sweet potatoes 4483, 7763, 11802  
  *Cylas formicarius elegantulus*, sweet potatoes 8716  
  *Delia platura* 9388  
  *Dendroctonus brevicornis*, Pinopsida 7936  
  *Dendroctonus pseudotsugae*, *Pseudotsuga menziesii* 8925  
  *Dryocoetes confusus*, *Abies lasiocarpa* 1702  
  *Enarmonia formosana* 1547  
  *Ephestia kuehniella*, flour mills 6878  
  *Epiphyas postvittana* 5377  
  *Eucosma notanthus*, *Averrhoa carambola* 3568  
  *Exomala orientalis* 1892  
  *Graphania* 402  
  *Helicoverpa armigera*  
    chickpeas 5464  
    cotton 4652, 6731  
    grain legumes 3489  
    tomatoes 6605, 6609  
  *Hyphantria cunea* 11703  
  insect pests 1183, 1297, 2389, 5549  
    apples 1539, 10851  
    fruits 1294  
    maize 5419  
  *Ips*, Pinus 1694  
  *Ips typographus*  
    forest trees 10959  
    *Picea jezoensis* 8920  
  *Lambdina ferdinaria* 4379  
  *Lambdina fiscellaria*, forest trees 1890  
  Lepidoptera 4074, 10483, 11692  
    *Capsicum annuum* 11832  
    cotton 1630, 8834  
    maize 9703  
  *Lobesia botrana*  
    grapes 2574, 9875, 11878  
    vineyards 9874  
  *Lymantria dispar*  
    broadleaves 1656  
    forest trees 404, 2653  
  *Matsucoccus feytaudi*, Pinus pinaster 5673  
  *Matsucoccus thunbergianae*  
    Pinus thunbergiana 5672  
    Pinus thunbergii 12014  
  *Neodiprion sertifer*, Pinus sylvestris 4727  
  Noctuidae 5272, 9269  
  *Ostrinia nubilalis* 4375  
    potatoes 9784  
  *Paranthrene tabaniformis* 10946  
  *Pectinophora gossypiella*, cotton 708, 1627, 3620, 4656, 4671-4672  
  pests, cotton 3623  
  *Phthorimaea operculella*, potatoes 11793  
  *Phyllonorycter elmaella* 7549  
  *Phyllonorycter ringoniella*, apples 11847  
  *Plutella xylostella* 1506  
    cabbages 7768  
    cauliflowers 11808  
  *Prostephanus truncatus* 8349  
  *Spondias purpurea* 7932  
  *Pseudaulacaspis pentagona*, fruits 11844  
  Pyralidae, dates, commodities 851  
  *Recurvaria* 1530  
  *Rhagoletis mendax*, *Vaccinium angustifolium* 9856  
  *Rhynchophorus* 4376  
  *Rhynchophorus palmarum*, oil palms 682  
  Scolytidae 1650  
    *Picea* 12016  
  *Scrobipalpus absoluta*, tomatoes 4531  
  Spodoptera, maize 2428  
  Spodoptera litura  
    field crops 6406  
    groundnuts 1605  
  Tortricidae 2569, 3310, 3536, 6286



- Traps cont.**  
 pheromone traps cont.  
 Tortricidae cont.  
 apples 5527, 10849  
 chestnuts 6703  
 fruits 2235  
*Trogoderma inclusum* 6290  
*Vitacea polistiformis*, grapes 4578  
 pitfall traps  
 Araneae 11929  
 forests 5626  
 beneficial arthropods, fields 5167  
 beneficial insects 6451, 9675  
 Byrrhidae, raspberries 6662  
 Carabidae 3427  
 cereals 4399  
 forest litter 5102  
 raspberries 5533  
 rice, fields 5439  
 Coleoptera, forests 11978  
*Conotrachelus nenuphar*, *Prunus* 6654  
*Hyllobius abietis*  
 forest trees 12006  
 forests 7905  
*Pinus* 2704  
*Leptinotarsa decemlineata*, potatoes 4496  
*Metamasius hemipterus sericeus* 2239  
 Nitidulidae, fruit crops 11845  
*Pasimachus* 4033  
 predatory arthropods 5494  
 wheat 1224, 10693  
 sex attractant traps, Coleoptera 7906  
 sticky traps  
*Anthonomus eugenii*, *Capsicum annuum* 4532  
 Aphididae, *Pistacia* 5567  
*Bemisia tabaci* 5468  
 cotton 4651  
 sunflowers 7863  
*Ceratitis capitata* 4367  
*Citrus* 7849  
*Conotrachelus nenuphar*, *Prunus* 6654  
*Frankliniella bispinosa*, *Citrus* 259  
*Frankliniella occidentalis*  
 apples 8759  
*Capsicum* 3528  
 insect pests 5549  
 wheat, commodities 4808  
*Lyctocoris campestris*, maize, commodities 9011  
*Lymantria dispar*, *Quercus* 2666  
 parasitoids, tea, plantations 11956  
*Pectinophora gossypiella*, cotton 708  
*Pseudaulacaspis pentagona*, tea 11955  
*Psila rosae*, carrots 1496  
*Scirtothrips dorsalis*, tea 2613  
*Trialeurodes vaporariorum*, cucumbers 4544  
 suction traps  
 Aphelinidae, field crops 6659  
 Aphididae 7260  
 vegetables 622  
 arthropods, grasslands 6126  
 insect pests 5549  
 insects 2575  
*Lygus hesperus*, strawberries 8772-8773  
*Myzus lythri* 11015  
*Myzus persicae* 5109  
*Phorodon humuli*, crops 11007  
*Scirtothrips dorsalis*, tea 2613  
 sweep nets  
 beneficial arthropods, fields 5167  
 Chrysopidae 9443  
 trap bands, *Lymantria dispar*, *Quercus* 365  
 trap crops  
*Acalymma vittatum*, cucumbers 4541  
*Anthonomus grandis*, cotton 5613-5614  
*Cicadella viridis*, fruits 11840  
 control  
*Helicoverpa armigera*, tomatoes 1521  
*Leptinotarsa decemlineata*, potatoes 4496  
*Plutella xylostella* 5495
- Traps cont.**  
 trap crops cont.  
 insect pests 3299  
 Lepidoptera, cotton 11963  
 water traps  
 Aphididae  
 broccoli 9804  
 celery 10808  
*Phaseolus vulgaris* 5463  
 potatoes 4495  
*Bemisia tabaci* 5468  
 Curculionidae, rape 2130  
*Delia radicum* 7503  
*Phthorimaea operculella*, potatoes 11793  
 yellow sticky traps  
 Aphelinidae, orchards 6659  
 Aphididae, celery 10808  
*Bemisia tabaci* 10830  
*Coccinella septempunctata*, crops 5392  
*Empoasca onukii*, tea 10908  
 insects, vineyards 6666  
*Liriomyza trifolii* 2224  
 greenhouse crops 10355  
*Parnara guttatus* 10474  
*Scirtothrips dorsalis*, tea 2613  
*Stethorus punctum*, apples 9838  
*Trialeurodes vaporariorum*, tomatoes 2240  
 yellow traps  
 Aleyrodidae 10472  
 Aphididae 5103, 7260, 8324  
 potatoes 4495  
 vegetables 622  
*Bactrocera oleae*, olives 6710  
 Coleoptera, rape 5570  
*Liriomyza huidobrensis*, potatoes 7749  
*Melanotus senilis* 6288  
*Napomyza cichorii*, chicory 8730  
*Rhagoletis tomatitis*, tomatoes 10818  
*Trathala flavoorbitalis*  
 aubergines, fields, Sri Lanka 1211  
 biology, reproduction 1211  
 hosts, *Leucinodes orbonalis* 1211  
**Trechaleidae**, checklists, Uruguay 8321  
**Trechus**  
 distribution, Serbia 8310  
 taxonomy 8310  
**Trechus discus**  
 cereals, fields, Finland 7644  
 green manures, effects 7644  
 monitoring, traps 5533, 10693  
 raspberries, fields, Quebec 5533  
 wheat, fields, Finland 10693  
**Trechus micros**  
 biology, behaviour 203  
 fields, Belgium 203  
**Trechus obtusus**  
 morphology 942  
 taxonomy 942  
**Trechus quadristriatus**  
 cereals, fields, Finland 7644  
 distribution, Serbia 8310  
 green manures, effects 7644  
 insecticides, toxicity 10609  
 morphology 942  
 taxonomy 942  
**Trechus secalis**  
 cereals, fields, Finland 7644  
 green manures, effects 7644  
**Tree fruits**  
 integrated pest management, reviews 6629  
 pest control, France 1529  
 Tetranychidae, China 9344  
 Tortricidae, Germany 6626  
*Zygina flammigera*, Israel 6627  
**Trees**  
*Dasineura gleditschiae*, Italy 5155  
*Otiorthynchus sulcatus*, Germany 10934  
**Trematodes tenebrioides**  
 distribution, Nei Menggu 8673  
 grasslands, Nei Menggu 8673  
**Tremex columba**, parasitoids 2833  
**Triadimefon**  
 effects  
*Neoseiulus fallacis* 3344  
*Spodoptera eridania* 4250  
*Trialeurodes abutiloneus*, genetics 5003
- Trialeurodes vaporariorum**  
 biochemistry, lipids 3867, 5936, 7101  
 biology 5030, 11823  
 behaviour 2240, 8261  
 environmental factors 2717  
 life cycle 8734  
 control 2529, 4219, 4544  
 biological control 1518, 1525, 1716, 2532, 6607, 7597, 11823, 11826  
 chemical control 796, 4544, 9956  
 integrated control 11826  
 Costa Rica 5030  
 cotton 10916  
 Israel 9956  
 cucumbers 9508  
 greenhouses 4544  
 Italy 1525  
*Cucumis melo*, resistance 6623  
 ecology, population dynamics 9781  
 economic thresholds 5461  
*Euphorbia pulcherrima*, Germany 1716  
 food plants 8261  
 fruit vegetables  
 damage 11823  
 Uzbekistan 11823  
*Gerbera jamesonii* 796  
 greenhouse crops 4219  
 Mediterranean Region 11447  
 Poland 1299  
 Russia 2529  
 South Africa 9538  
 greenhouses, France 8378  
 hosts, *Bemisia tabaci* 7996  
 insecticides  
 effects 6318, 10916  
 resistance 9956, 11829  
 toxicity 9596  
 monitoring, traps 1299, 2240, 9538  
 morphology  
 cuticle 11152  
 sense organs 5832  
 ornamental plants 2717  
 parasitoids 3968, 7332, 8734, 10279  
 sex ratio 7344  
 pathogens 6246, 7429, 9508  
*Pelargonium × domesticum*, resistance 6817  
*Phaseolus vulgaris*, Colombia 5461  
 plant extracts  
 effects 8487  
 toxicity 2733  
 plant pathogens, transmission 2501  
 potatoes 2501  
 Hokkaido 9781  
 predators 8378, 11447  
*Rosa*, Tamil Nadu 7968  
 tomatoes 2240, 8734  
 Beijing 11829  
 France 1518, 8378  
 Honshu 6607  
 Hungary 2733  
 Italy 11826  
 resistance 4524  
 Sardinia 2532  
 vegetables 9596  
**Triarthria setipennis**  
*Acacia longifolia* var. *floribunda*, habitats, Italy 2720  
 hosts, *Forficula auricularia* 314  
 rearing techniques 314  
**Triaspis**  
 hosts, *Curculio* 3  
 Palaearctic Region 3  
 taxonomy 3  
**Triaspis curculiovorus**  
 Hokkaido 3  
 taxonomy, new species 3  
**Triazamate**, resistance, *Myzus* 4976  
**Triazophos**  
 control  
*Aleurolobus barodensis*, sugarcane 11944  
*Callosobruchus maculatus*, cowpeas 1486  
 insect pests  
 cotton 4650, 7896  
 okras 6624  
*Myzus persicae*, tobacco 5599  
 Noctuidae, soyabeans 11765  
 effects, *Bemisia tabaci* 5297



**Triazophos** *cont.*

- mixtures
  - control, insect pests, cotton 7896
  - effects, cotton 8839
- poisoning, *Apis mellifera* 5315
- residues, okras 6624
- resistance

- Helicoverpa armigera* 1327
- Heliothis virescens* 4979

**Tribolium**

- flour mills, Italy 6878
- genetics
  - gene expression 1012
  - genes 11239

**Tribolium anaphe**

- biology, development 3706
- cereals, flours 3706

**Tribolium castaneum**

- Aspergillus alutaceus*, interactions 9018
- barley, commodities, Montana 5741
- biochemistry, enzymes 2280, 8121
- biology 3330, 9016
  - behaviour 2161, 3056
  - environmental factors 837, 4018, 6037
  - reproduction 1871-1872
- cassava, commodities 843, 4483
- cereal grains, South Carolina 4809
- cereals, commodities 850, 2786
- control 2780
  - carbon dioxide 6869
  - chemical control 841, 6881, 9013, 10039, 11049
  - controlled atmospheres 850
  - integrated control 9007
  - physical control 6874
- ecology
  - environmental factors 9013
  - population dynamics, models 9343, 11358
- flours 8022, 9016
- forest trees 8890
- fumigants, toxicity 8890
- genetics 3056, 4984
  - artificial selection 6122
  - development 5013
  - DNA 9239
  - gene expression 1011
  - genes 8215, 9245
  - genetic variation 2954, 8022
  - hybridization 6001
  - insecticide resistance 4255
- groundnuts, commodities, Georgia 2780
- growth regulators
  - effects 11652
  - toxicity 1332
- insecticides
  - effects 1324, 2784, 3330, 6343, 8499, 10518
- repellents 2785
- resistance 432, 2280, 4255, 9239, 10608, 11585
- toxicity 833, 1330-1331, 3329, 11043

- maize
  - commodities 2784, 10039
  - Georgia 6874
  - Zimbabwe 841
- monitoring 4808
- monoterpenoids, toxicity 6314, 6320
- pathogens 2161, 7389
- pheromones 519
- physiology 8499
  - enzymes 9163
  - heat production 6892
  - hormones 8121
  - reproduction 1902
- plant extracts
  - attractants 5271
  - effects 843, 2786, 6279, 9163
  - bioassays 410
  - toxicity 6864, 8958
- plant oils, toxicity 6313
- predators 320, 5741, 10383, 11419
- rearing techniques 6116
- rice, commodities 5271
- Spain 3056
- terpenoids, toxicity 8479
- Tribolium confusum*, competition 10242
- wheat
  - commodities 2785, 6864, 6892, 9018, 11043

**Tribolium castaneum** *cont.*

- wheat *cont.*
  - commodities *cont.*
    - Kansas 4808
    - Manitoba 9013
    - Pakistan 9007, 11049

**Tribolium confusum**

- biology
  - behaviour 2161
  - development 3932
  - environmental factors 837
- cereal flours 12077
- cereal grains 11040
- control 5746
  - chemical control 5744, 11040, 12069
  - controlled atmospheres, effects 8125
  - ecology, population dynamics 9006
  - feeds, stores, Manitoba 9006
  - flours 6880
  - insecticides, effects 6328
  - ornamental plants, commodities 5746
  - pathogens 2161, 7389, 7461
  - pheromones 519
  - physiology
    - enzymes 8125, 9163
    - heat production 6892
  - plant extracts
    - effects 9163
    - toxicity 8026
  - radiation, effects 12077
  - soyabeans, commodities 12069
  - symbionts, fertility 8998
  - Tribolium castaneum*, competition 10242
  - UK 5744
  - wheat, commodities 840, 6892
  - wheat flour 3932

**Tribolium destructor**, biochemistry, chemical composition 4974**Tribolium freemani**

- biology
  - development 5856
  - reproduction 1871-1872
- genetics, genetic variation 2954
- physiology
  - hormones 8119
  - reproduction 1902

**S,S,S-Tributyl phosphorotrithioate**, control,

- Bemisia tabaci*, cotton 3615

**S,S,S-Tributyl phosphorotrithioate**, resis-

- tance, *Cacopsylla pyri* 4252

**S,S,S-Tributyl phosphorotrithioate**, syner-

- gism 6336, 7731, 9613

**Trichagalma serrata**

- Lepidoptera, interactions 11306
- parasitoids 11306
- Quercus acutissima*
  - galls 11306
- Honshu 11306

**Trichapion lativentre**

- pesticides, effects 6855
- Sesbania punicea*, South Africa 6855

**Trichiosoma scalesii**

- Betula*, Finland 6750
- ecology, habitats 6750

**Trichlorfon**

- control
  - Acronicta rumicis* 7635
  - Aorata scutellaris*, grapes 9861
  - Bactrocera cucurbitae*, *Momordica charantia* 6620
  - Ceratitidis* 2568
  - Keiferia lycopersicella*, tomatoes 2531
  - Lycoriella pleuroti*, fungi 12041
  - Monolepta australis* 2650
  - Pentatomidae, rice 1460
  - Tingidae, oil palms 4623
  - degradation, water 4231
  - determination 10356
  - effects
    - Nomuraea rileyi* 4144
    - Stethopachys formosa* 12039
  - interactions, *Metarhizium anisopliae* 1336
  - mixtures, control, *Spodoptera exigua*, sugarbeet 8819
  - residues
    - determination 494
    - environment 5685
    - man 494
  - resistance
    - Chilo suppressalis* 5295

**Trichlorfon** *cont.*resistance *cont.*

- Lygus hesperus* 6334

## toxicity

- Anastrepha fraterculus* 8457
- Apidae 9600
- aquatic organisms 1343-1344
- Steinernema carpocapsae* 7583

**Trichloronat**, extraction, water 502**Trichlorophon** (see **Trichlorfon**)**Trichoceridae**

- evolution 928
- taxonomy 11123

**Trichochermes walkeri**

- biology, life cycle 3652
- Rhamnus cathartica*
  - galls 3652
  - UK 3652

**Trichoderma**, growth regulators, degradation 4299**Trichodes**, prey, *Dociostaurus maroccanus* 6148**Trichodes alvearius**, prey, *Osmia tricornis* 5148**Trichogramma**

- biology
  - behaviour 3211-3212
  - models 4118
  - reproduction 3198, 9528
- books 5775
- control
  - Erinnyis ello*, cassava 10790
  - Lepidoptera, evaluation 9528
  - crops, fields, Andhra Pradesh 4389
  - ecology, distribution 2421
  - fields, habitats, Maharashtra 5153
  - genetics 3198
    - behaviour 4118
    - DNA 7362
    - DNA fingerprinting 11244
    - population genetics 3212
  - herbicides, effects 6202
  - hosts
    - Apodemus mormo* 3198
    - Chrysoperla carnea* 5153
    - Dismorphia amphione* 7339
    - Helicoverpa armigera* 4389
    - Lepidoptera 4118, 9528
    - Neoleucinodes elegantalis* 3565
    - Ostrinia furnacalis* 2421
    - Phyllocolpa* 6761
    - Sitotroga cerealella* 10790
    - Strigina bifida* 5689
    - Zeiraphera* 3662
    - Zeiraphera canadensis* 4740
  - identification 11244
    - Larix*, forests, Hebei 3662
    - Magnolia biloba*, habitats, Zhejiang 5689
    - maize, fields, Taiwan 2421
    - morphology 11453
    - pathogens 3198
    - Picea glauca*, plantations, New Brunswick 4740
    - Puerto Rico 7339
    - rearing techniques 10790, 11404
    - Salix sericea*, habitats, New York 6761
    - taxonomy 9066, 11418, 11453
    - cytotaxonomy 7362
    - Wolbachia*, interactions 3213
- Trichogramma bournieri**
  - hosts, *Chilo partellus* 8646
  - rearing techniques 8646
- Trichogramma brasiliense**
  - control, *Helicoverpa armigera*, tomatoes 1520
  - hosts, *Helicoverpa armigera* 1520
- Trichogramma brassicae**
  - biology
    - behaviour 8389
    - environmental factors 2007
    - reproduction 9528
  - control
    - Lepidoptera, evaluation 9528
    - Ostrinia nubilalis*, maize 9694
  - genetics, restriction fragment length polymorphism 11433
  - hosts
    - Lepidoptera 9528
    - Ostrinia nubilalis* 9694
    - Pyralidae 8389
  - morphology 11453



- Trichogramma brassicae** *cont.*  
taxonomy 11453
- Trichogramma cacaeciae**  
biology, behaviour 7184  
hosts, Tortricidae 7184
- Trichogramma chilonis**  
biology  
behaviour 4120, 7203, 9799  
reproduction 312  
control  
*Chilo sacchariphagus indicus*, sugar-cane 3595  
*Plutella xylostella*, evaluation 9799  
*Spodoptera litura*, potatoes 1493  
hosts  
*Corcya cephalonica* 312  
*Plutella xylostella* 4120, 9799  
*Spodoptera litura* 7203  
potatoes, fields, Karnataka 1493
- Trichogramma deion**  
biology, reproduction 3198  
hosts, *Apodemus mormo* 3198  
pathogens 3198
- Trichogramma dendrolimi**  
biology  
behaviour 7184, 10372  
development 9432  
ecology, habitats 9969  
forests, Hunan 9969  
hops, habitats, Honshu 10380  
hosts  
*Ephestia kuehniella* 9432  
*Inachis io* 10380  
Lasiocampidae 10372  
Lepidoptera 9969  
Tortricidae 7184  
rearing techniques 9432
- Trichogramma embryophagum**  
biology, behaviour 7184  
hosts, Tortricidae 7184
- Trichogramma evanescens**  
biology 11876  
behaviour 7184  
environmental factors 6073  
reproduction 9417  
hosts  
Lepidoptera 9066, 9417  
*Lobesia botrana* 11876  
*Ostrinia nubilalis* 6464  
Tortricidae 7184  
maize, fields, Yugoslavia 6464  
Moldova 9417  
Portugal 9066  
taxonomy 9066  
vineyards, Egypt 11876
- Trichogramma evanescens group**  
morphology 11453  
taxonomy 11453
- Trichogramma galloi**  
biology, environmental factors 7247  
hosts, *Diatraea saccharalis* 7247, 8814
- Trichogramma ivelae**  
biology, behaviour 10267  
hosts, Lepidoptera 10267
- Trichogramma japonicum**  
control  
*Cnaphalocrocis medinalis*, evaluation 570  
*Scirpophaga incertulas*, rice 4441  
hosts  
*Agrotis biconica* 4635  
*Cnaphalocrocis medinalis* 570  
*Scirpophaga incertulas* 4441, 5441  
rice, fields, Indonesia 5441
- Trichogramma lopezandiniensis**  
Colombia 4850  
hosts, Lepidoptera 4850  
taxonomy, new species 4850
- Trichogramma minutum**  
biology  
diapause 8280  
nutrition 9433  
reproduction 190, 9528  
control, Lepidoptera, evaluation 9528  
genetics, restriction fragment length polymorphism 11433  
hosts  
*Choristoneura fumiferana* 4721  
*Ephestia kuehniella* 190  
*Helicoverpa zea* 10706  
Lepidoptera 1215, 7363, 8280, 9528
- Trichogramma minutum** *cont.*  
maize, fields, Chile 10706  
Pinopsida, forests, Canada 4721  
rearing techniques 1215, 7363, 8280
- Trichogramma minutum group**  
morphology 11453  
taxonomy 11453
- Trichogramma nubilale**  
attractants 2116  
biology, behaviour 10370  
control, *Ostrinia nubilalis*, evaluation 11731  
hosts, *Ostrinia nubilalis* 2116, 10370  
maize, fields, Pennsylvania 11731
- Trichogramma ostrinae**  
biology  
environmental factors 7682  
reproduction 312  
hosts  
*Corcya cephalonica* 312  
*Ostrinia nubilalis* 7682  
maize, fields, Jiangsu 7682
- Trichogramma perkinsi group**  
morphology 11453  
taxonomy 11453
- Trichogramma pintoi group**  
morphology 11453  
taxonomy 11453
- Trichogramma pretiosum**  
biology 4522  
life cycle 5420  
reproduction 3198  
California 6184  
control  
*Helicoverpa armigera*, tomatoes 1520  
*Helicoverpa zea*, melons 7799  
ecology 6184  
growth regulators, effects 7570  
hosts  
*Apodemus mormo* 3198  
*Ephestia kuehniella* 1337  
*Helicoverpa armigera* 1520  
Lepidoptera 5420, 6184  
Noctuidae 4416  
*Sitotroga cerealella* 4522  
insecticides, effects 1337, 7799  
maize, fields, Sao Paulo 4416  
pathogens 3198  
tomatoes, fields, Venezuela 4522
- Trichogramma pretiosum group**  
morphology 11453  
taxonomy 11453
- Trichogramma sibiricum**  
biology, reproduction 9528  
control, Lepidoptera, evaluation 9528  
genetics, restriction fragment length polymorphism 11433  
hosts, Lepidoptera 9528
- Trichogramma telengai**  
broadleaves, forests, Ukraine 1653  
ecology 1653  
hosts, *Tortrix viridana* 1653
- Trichogramma turkestanica** (see *T. evanescens*)
- Trichogramma voegelei**  
morphology 11453  
taxonomy 11453
- Trichogrammatidae**, India 11418
- Trichogrammatoidea**  
fields, Kenya 6427  
hosts, *Helicoverpa armigera* 6427  
taxonomy 11418
- Trichogrammatoidea simmondsi**  
hosts, *Atherigona soccata* 2440  
sorghum, fields, Burkina Faso 2440
- Trichomalopsis dubius**  
*Bromus inermis*, habitats, Indiana 2475  
hosts, *Aleiodes stigmatus* 2475
- Trichomasthus coeruleus**  
hosts, *Gossyparia spuria* 2671  
*Ulmus*, habitats, California 2671
- Trichoplusia ni**  
alkaloids, effects 431  
biochemistry  
chemical composition 9221  
endocrine system 4965-4967, 7094  
enzymes 6576, 8219  
polypeptides 11225  
biological control agents, evaluation 4166  
biology, behaviour 3824, 7891
- Trichoplusia ni** *cont.*  
Brussels sprouts, Prince Edward Island 4515  
cabbages, Prince Edward Island 10800  
cell lines  
genetics, genetic engineering 9236  
pathogens 4198, 11512  
Chile 9269  
*Conium maculatum*, Illinois 4783  
control 4515  
biological control 11812  
chemical control 10800  
cotton, California 10920  
ecology, life tables 1508  
genetics, complementary DNA 8219  
growth regulators, effects 8219  
insecticides  
effects 4275, 11603  
pathogenicity 357  
kale 1508  
leafy vegetables, America 11812  
monitoring 10800  
traps 9269, 10920  
parasitoids 318, 8112, 8270  
pathogens 1443, 4148, 4155, 4197, 4515, 6226, 6238, 7445, 8439  
pheromones 3824, 7891  
physiology  
nervous system 10182  
sensilla 5925-5926  
plant extracts  
antifeedants 6397, 6530  
effects 6576, 7891, 11699  
predators 3045
- Trichoplusia orichalcea** (see *Thysanoplusia orichalcea*)
- Trichopoda giacomellii**  
Argentina 3084  
hosts, *Nezara viridula* 3084
- Trichopoda pennipes**  
hosts  
Cicadellidae 11918  
*Nezara viridula* 11390  
rearing techniques 11390
- Trichopria**  
attractants 6052  
control, *Exorista bombycis*, evaluation 6271  
ecology, life tables 6271  
hosts, *Exorista bombycis* 6052
- Trichopria khandalus**  
biology, development 6028  
hosts, *Exorista bombycis* 6028, 6272
- Trichosanthes cucumerina**  
Lasiotera chichindae  
galls 637  
Sri Lanka 637
- Trichosanthes kirilowii**, *Epilachna admirabilis*, Honshu 1744
- Trichosanthes ovigera**, *Epilachna admirabilis*, Honshu 1744
- Trichosirocalus horridus**  
*Carduus thoermeri* 2764  
control, Asteraceae 2218  
ecology, population dynamics 2218  
North Carolina 2218  
plant pathogens, transmission 2764
- Trichospilus diatraeae**  
distribution, Puerto Rico 7339  
hosts, *Dismorphia amphione* 7339
- Trichosteresis**, distribution, USA 8320
- Trichouropoda pilifera**  
taxonomy, new species 8070  
USA 8070
- Trictiona picea**, insecticides, toxicity 9557
- Triclopyr**  
effects  
forests, insects 10933  
Gastropoda 10403
- (4E,7Z)-4,7-Tridecadienyl acetate**, pheromones, *Phthorimaea operculella* 3834
- Tridecane**, pheromones, *Formica lugubris* 973
- 2-Tridecanone**, pheromones, *Drosophila buzzatii* 2935
- (S)-2-Tridecanyl acetate**, synthesis 523
- (4E,7Z,10Z)-4,7,10-Tridecatrienyl acetate**, pheromones, *Phthorimaea operculella* 3834
- (Z)-4-Tridecenal**, mixtures, attractants, *Macrocentrus grandii* 7063



- (Z)-4-Tridecene, pheromones, *Formica lugubris* 973
- Tridec-4-en-1-yl acetate**  
pheromones, *Keiferia lycopersicella* 11690  
synthesis 11690
- (Z)-8-Tridecenyl nitrate, pheromones, *Bucculatrix thurberiella* 4663
- Tridiscus oetvoesi**  
*Agropyron*, British Columbia 920  
taxonomy, new species 920
- Tridiscus sporoboli**  
*Buchloe dactyloides*  
damage 6506  
Nebraska 6506  
distribution, Nebraska 6506
- Triflururon**  
control  
*Cydia molesta*, pome fruits 7809  
insect pests, potatoes 6559  
*Locusta migratoria migratorioides*, savannas 5709  
*Scrobipalpus absoluta*, tomatoes 2535
- effects  
Coccinellidae 444  
environment 7625  
*Trichogramma pretiosum* 7570  
resistance, *Plutella xylostella* 11594  
toxicity  
*Alphitobius diaperinus* 10537  
*Ceraeochrysa cubana* 4324  
Coleoptera 1332  
*Locusta migratoria* 2289  
*Tenebrio molitor* 2281, 11595  
usage 7625
- Trifluoromethyl ketone**, pheromones, Noctuidae 7634
- 4-((Trifluoromethyl)sulfinyl)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- 4-((Trifluoromethyl)sulfonyl)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- 4-((Trifluoromethyl)thio)-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-1H-pyrazole**  
effects  
*Acheta domesticus* 3363  
mice 3363
- Trifluralin**, toxicity, *Metarhizium anisopliae* 2307
- Trifolium**  
*Coleophora*, Nearctic Region 1797  
pesticides, residues 578  
*Tychius*, North America 6526
- Trifolium alexandrinum**  
Noctuidae, Himachal Pradesh 8684  
*Thysanoplasia orichalcea*, India 1469
- Trifolium ambiguum**, *Nicaeana*, New Zealand 6521
- Trifolium incarnatum**, mycotoxins, effects 5459
- Trifolium pratense**  
*Acyrtosiphon pisum* 2900, 4467  
resistance 4461  
Sweden 586  
fields, predatory arthropods, Sweden 586  
habitats, Hymenoptera, Germany 4462  
insect pests  
control, chemical control 2482  
Germany 4462  
*Sitona hispidulus* 10337  
*Sminthurus viridis*  
New Zealand 7725  
resistance 7725
- Trifolium repens**  
*Bradysia*, damage 8670  
*Costelytra zealandica*, New Zealand 1468  
Gastropoda, UK 11009  
intercropping, cabbages, effects, insect pests 7771  
*Listronotus bonariensis*, New Zealand 6502  
*Nicaeana*, New Zealand 6521
- Trifolium repens cont.**  
*Nicaeana cinerea*  
damage 6524  
New Zealand 6524  
pest control 391  
*Sitona hispidulus* 10337  
nitrogen transfer 4392  
*Sitona lepidus*, resistance 4481  
*Sminthurus viridis*  
New Zealand 7725  
resistance 7725  
*Spodoptera litura*, Japan 391  
*Tetranychus urticae*, North Carolina 5394
- Trifolium resupinatum**, *Thysanoplasia orichalcea*, India 1469
- Trifolium subterraneum**  
*Halotydeus destructor* 3487  
varietal reactions 11763  
Western Australia 11763  
intercropping, cabbages, effects, insect pests 7771
- Trigonaloidea**, taxonomy 1803
- Trigonella foenum-graecum**  
extracts, toxicity, *Amblyseius barkeri* 7984  
pest control 3678
- Trigonotylus ruficornis**, soyabeans, Yugoslavia 6536
- Trilophidia annulata**, genetics, chromosomes 9233
- Trilophus interpunctatus**, distribution, South Asia 3122
- Trimedlure**, attractants, *Ceratitis capitata* 4367, 7632
- Trimerotropis pallidipennis**  
Argentina 3897  
genetics, genetic variation 3897  
predators 9314
- O,O,S-Trimethyl phosphorothioate**, effects, rats 11629
- (8E,10E)-3,7,9-Trimethyl-8,10-dodecadien-6-one**, pheromones, *Matsucoccus feytaudi* 5673
- (2E,4E,6R,10S)-4,6,10-Trimethyl-2,4-dodecadien-7-one**  
pheromones, *Matsucoccus feytaudi* 1395  
synthesis 1395
- (2E,4E,6E,8E)-3,5,7-Trimethyl-2,4,6,8-undecatetraene**  
attractants, *Carpophilus* 7060  
pheromones, *Carpophilus davidsoni* 7060
- Trinervitermes**, South Asia 11460
- Trinidad and Tobago**  
*Citrus*  
*Ecdytolopha aurantianum* 6683  
*Toxoptera citricidus* 4591  
*Sternochetus mangiferae* 11386
- Triodecane**, secretions, *Lincus* 4885
- Trionymus**  
*Buchloe dactyloides*  
damage 6506  
Nebraska 6506  
distribution, Nebraska 6506
- Trioxabicyclooctanes**  
chemistry 10343  
toxicity, insect pests 10343
- Trioxys**, taxonomy 5398
- Trioxys angelicae**  
biology, behaviour, models 2104  
hosts  
Aphididae 2104  
*Aphis* 5398  
taxonomy, synonyms, of *Trioxys aculephae* 5398
- Trioxys complanatus**, hosts, *Therioaphis* 5398
- Trioxys curvicaudus**, hosts, *Eucallipterus tiliae* 8887
- Trioxys moshei**  
hosts, *Hoplocallic pictus* 5398  
taxonomy, new species 5398
- Trioxys pallidus**  
genetics  
DNA, analysis 9381  
DNA amplification 9381  
hosts, *Monellia caryella* 5398
- Trioxa**  
morphology 9061  
parasitoids 9071  
taxonomy 10094
- Trioxa erytrae**  
*Citrus*, South Africa 2579  
predators 2579
- Trioxa remota**  
distribution, Turkey 1148  
*Quercus infectoria*, Turkey 1148
- Trioxa ternstroemiae**  
morphology 9061  
taxonomy, new species 9061  
*Ternstroemia gymnanthera*, Japan 9061
- Trioxa trisignata**  
blackberries, Turkey 1148  
distribution, Turkey 1148
- Trioxa yelagiriensis**  
*Ficus benghalensis*, Tamil Nadu 10094  
taxonomy, new species 10094
- Triozidae**, Nicaragua 10295
- Triphenyl phosphate**, synergism 9613, 11575
- Triphleba lugubris**, Washington 3939
- Tripleurospermum inodorum** (see *Matricaria perforata*)
- Tripleurospermum maritimum** (see *Matricaria perforata*)
- Tripolitanus kruger**, lucerne, fields, Libya 3486
- Tripsacum dactyloides**  
burning, effects, insects 11761  
*Dalbulus*, Mexico 10746  
*Dalbulus quinquenotatus*, Mexico 11761
- Tripsacum dactyloides** × *Zea diploperennis*, *Diabrotica virgifera*, resistance 2408
- Tripsacum pilosum**  
Cicadellidae, Mexico 4036  
habitats, Hymenoptera, Mexico 4036
- Trirhabda canadensis**  
ecology 4770, 6843  
*Solidago missouriensis* 6843  
Minnesota 4770
- Trirhabda geminata**  
acids, effects 11336  
biology 10023  
*Encelia farinosa* 10023, 11336
- Trirhabda nitidicollis**  
*Chrysothamnus*, Colorado 4465  
control, chemical control 4465  
ecology, population dynamics 4465  
predators 4465
- Trissolcus basalis**  
biology  
behaviour 7156  
reproduction 7226  
hosts  
*Nezara viridula* 4107, 7226, 7304  
pentatomidae 7156  
morphology 65  
parasitoids 65  
rearing techniques 7304
- Trissolcus grandis**, hosts, *Eurygaster integriceps* 325
- Trissolcus oenone**  
control, *Biprorulus bibax*, lemons 664  
hosts, *Biprorulus bibax* 664
- Trissolcus simoni**, control, *Eurydema ornata*, evaluation 386
- Triticale** (*Triticum* × *Secale*)  
arthropod pests 1433  
insect pests  
damage 4398  
Georgia 4398, 9670  
*Schizaphis graminum*, resistance 3443  
*Thysanoptera*, North Carolina 9279
- Triticum aestivum** (see *Wheat*)
- Triticum dicoccum**, *Metopolophium dirhodum* 540
- Triticum durum** (see *Wheat*)
- Triticum monococcum**, *Sitobion avenae*, resistance 8636, 11719
- Triticum** × *Secale* (see *Triticale*)
- Tritoma**, fungi 3033
- Trochoidea geyeri**, taxonomy 11471
- Trochorhopalus sacchari**  
biology, behaviour 2607  
sugarcane, India 2607
- Trogoderma**  
barley, commodities, Montana 5741  
predators 5741  
taxonomy 6973
- Trogoderma glabrum**, taxonomy 6973
- Trogoderma granarium**  
cereal grains, damage 10032, 10056



**Trogoderma granarium** *cont.*  
control  
carbon dioxide 6869  
integrated control 9007  
insecticides  
effects 6331  
metabolism 1322  
toxicity 833  
pheromones 1396  
plant oils, toxicity 6313  
taxonomy 6973  
wheat  
commodities  
Indian Punjab 6868  
Pakistan 9007

**Trogoderma halsteadii**  
*Bombyx mori*, cocoons, Uttar Pradesh 4791  
taxonomy, new species 4791

**Trogoderma inclusum**  
monitoring, traps 6290  
pheromones 6290  
Spain 6290  
taxonomy 6973

**Trogoderma variable**, taxonomy 6973

**Trogoxylon impressum**  
biology 12071  
tropical timbers 12071  
vineyards, Switzerland 12071

**Troides rhadamantus plateni**, physiology, senses 4956

**Tropaeolum majus**, *Pieris rapae* 10012

**Tropical crops**  
commodities, insect pests, control 2395  
Malaysia, reports 856  
pest control 856

**Tropical forests**  
*Anelosimus eximius*, French Guiana 5151  
books 887  
Formicidae, Costa Rica 289  
insects 887  
Africa 5624

**Tropical fruits**  
arthropod pests 6909  
*Bactrocera* 6945  
*Bactrocera carambolae* 9897  
*Bactrocera kandiensis*, Sri Lanka 9894  
*Bactrocera occipitalis*, South East Asia 9893  
*Bactrocera papayae* 9351  
*Bactrocera philippinensis*, Philippines 9892  
*Bactrocera pyrifoliae*, Thailand 9898  
commodities  
*Anastrepha suspensa* 1775  
insect pests, control 4799  
*Monolepta australis*, Northern Territory 2650  
pest control 2577, 6675

**Tropical rain forests**  
Formicidae, Ghana 11960  
insects, Panama 2649

**Tropical timbers**, *Trogoxylon impressum* 12071

**Tropics**  
environment, pesticides, nontarget effects 11670  
insects 3129  
pesticides, nontarget effects 11669  
plant protection 11537  
rice, pest management 11749

**Tropilaelaps clareae**  
Asia 8360, 11430  
biology  
behaviour 4089  
life history 11443  
control 11430  
chemical control 10388  
Himachal Pradesh 1202  
hosts  
*Apis* 11430, 11443  
*Apis mellifera* 1202, 4089, 8360, 10388

**Tropobracon**, taxonomy 6984

**Tropobracon comorensis**  
hosts, *Chilo partellus* 6984  
taxonomy, new species 6984

**Tropobracon infuscatus**, taxonomy, new species 6984

**Tropobracon luteus**, taxonomy, synonyms 6984

**Tropobracon luteus** var. *indica*, taxonomy, synonyms, of *Tropobracon luteus* 6984

**Trupanea patagonica**  
ecology, population dynamics 5716  
*Gutierrezia*, Argentina 5716

**Truxalis**, predators 274

**Truxalis nasuta**, Algeria 9362

**Trybliographa**  
control, insect pests, rice 9724  
geographical distribution, Korea Republic 301  
hosts, *Delia antiqua* 301  
Korea Republic 301  
rice, fields, Colombia 9724

**Trybliographa rapae**  
hosts, *Delia antiqua* 301  
Korea Republic 301

**Tryblosis cyperia**  
biology, reproduction 4115  
hosts, *Misumena vatia* 4115  
Maine 4115

**Trypanosomatidae**, hosts, insects 7388

**Trypetisoma**, taxonomy 7373

**Tryphonini**  
Korea Republic 10085  
taxonomy 10085

**Trypodendron lineatum**  
biology, behaviour 7962, 8994  
control, trapping 6778  
Pinopsida, British Columbia 6778  
*Pseudotsuga menziesii*  
Oregon 7962, 8994  
wood 8994

**Tryporyza** (see *Scirpophaga*)

**Tryporyza incertulas** (see *Scirpophaga incertulas*)

**Trypoxylon politum**  
biology, population dynamics 8386  
parasitoids 8386

**Trypoxylon rogenhoferi**  
biology 9264  
parasitoids 9264  
prey, Araneidae 9264  
Sao Paulo 9264

**Trypoxylon triadentatum**  
Mexico 5149  
prey, Araneae 5149

**Tryptophan**, protectants, *Baculovirus* 11478

**D-Tryptophan**, effects, *Bactrocera cucurbitae* 7029

**Tsuga**  
forests, parasitoids, Connecticut 2708  
*Lambdina fervidaria athasaria*, Connecticut 2708  
pests  
Canada, books 891  
control 891  
damage 891

**Tsuga canadensis**  
*Adelges tsugae*, Connecticut 12018  
forests, *Scymnus suturalis*, Connecticut 12018

**Tsuga heterophylla**, Scolytidae, British Columbia 6778

**Tubanaea quadridentata**, hosts, *Gryllobes sigillatus* 2202

**Tuberaphis leeuweni**  
biology, life cycle 10111  
*Styrax serrulata*  
galls 10111  
Indonesia 10111  
taxonomy 10111

**Tuberaphis takenouchii**  
biology, behaviour 4832  
Loranthaceae  
galls 4832  
South East Asia 4832  
taxonomy, from *Astegopteryx* 4832

**Tuberculatus nervatus**, predators 3008

**Tullbergiinae**  
Europe 8062  
taxonomy 8062

**Tunisia**  
*Cataglyphis* 8051  
cereals, *Mayetiola destructor* 9667  
dates, *Parlatoria blanchardii* 9900  
olives, *Euphyllura olivina* 6711  
pesticides, usage 6555  
potatoes  
integrated pest management 6555  
*Phthorimaea operculella* 6555

**Tunisia** *cont.*  
*Schistocerca gregaria* 1187

**Turbopsebius sulphuripes**  
biology, development 5154  
distribution, North America 5154  
hosts, *Coras montanus* 5154

**Turcopus**, taxonomy, new genus 4853

**Turcopus viscivorus**  
*Phoradendron*, Mexico 4853  
taxonomy, new species 4853

**Turdus migratorius**, pesticides, residues 5332

**Turdus rufiventris**, Curculionidae, interactions 11291

**Turf** (see Lawns and turf)

**Turkey**  
*Acer negundo*, *Eulecanium transvittatum* 6775  
apples, orchards, *Amblyseius* 1537  
*Astragalus*, *Anthaxia adiyamana* 1828  
*Bacillus atticus* 5010  
biological control 1277  
carobs, *Apomyelois ceratoniae* 1580  
*Citrus*  
Cicadellidae 1566  
*Dialeurodes citri* 3561  
orchards, *Eretmocerus debachi* 11895  
*Parabemisia myricae* 11895  
Coccinellidae 1149  
Coleoptera 6942  
cowpeas, *Callosobruchus maculatus* 1486  
*Eurytoma* 901  
food plants, *Phthorimaea operculella* 11710  
grain legumes, Agromyzidae 1470  
Ichneumonidae 11374  
insect pests 7205  
*Juniperus*, *Anthaxia turcica* 1828  
lentils, fields, insects 1482  
lucerne, *Hypera postica* 7723  
mites, reviews 2082  
oranges, Cicadellidae 10880  
pesticides, usage 1317  
*Pinus*, *Matsucoccus josephi*, predators 2697  
Psylloidea 1148  
sesame, *Circulifer haematocephalus* 10902  
soil bacteria, insecticides, degradation 10656  
tomatoes, *Macrosiphum euphorbiae* 1519  
wheat, *Rhipidothrips flavus* 1147  
*Zercon* 4859

**Turkmenistan**  
Araneae 10294  
arthropods, books 11073  
Cecidomyiidae 5094  
*Chorthippus* 5123  
Coleoptera 10293  
integrated pest management 6915

**Turks and Caicos Islands**, Lygaeidae 6099

**Turkichus**, taxonomy, synonyms, *Aprostocetus* 8093

**Turmeric** (*Curcuma longa*)  
extracts, effects, *Callosobruchus maculatus* 9003  
pest control 3678

**Turnaca acuta**  
coconuts  
outbreaks 11928  
Tamil Nadu 11928  
natural enemies 11928

**Turnip rape** (*Brassica campestris* var. *oleifera*)  
Coleoptera, Finland 3578

**Turnips** (*Brassica campestris* var. *rapa*)  
extracts, toxicity, *Amblyseius barkeri* 7984  
*Phyllotreta striolata*, Honshu 6564  
*Plutella xylostella*, Pakistan 6586

**Turraea nitotica**, extracts, antifeedants, *Lep-tinotarsa decemlineata* 10680

**Tursiops truncatus**, insecticides, effects 3379

**Turtles**  
insecticides, residues 3372  
pesticides, effects 9598

**Tychiinae**  
biology, seasonal abundance 4571  
raspberries, Quebec 4571

**Tychius flavus**  
biology, environmental factors 4458



- Tychius flavus* cont.**  
lucerne  
damage 4458  
Hungary 4458
- Tychius meliloti***  
distribution, Canada 6526  
*Melilotus*, Canada 6526
- Tychius picirostris***, *Trifolium*, North America 6526
- Tychius stephensi***, *Trifolium*, North America 6526
- Tydeidae**  
coffee, habitats, Queensland 5596  
ecology, habitats 3418  
woody plants, Korea Republic 3418
- Tydeus***, taxonomy 8057
- Tydeus caputoperio***  
grasses, Sweden 8057  
taxonomy, new species 8057
- Tydeus danielssoni***  
*Pinus*, Sweden 8057  
taxonomy, new species 8057
- Tydeus exiguelitteratus***  
forest trees, Sweden 8057  
taxonomy, new species 8057
- Tydeus nytebodensis***  
*Picea abies*, Sweden 8057  
taxonomy, new species 8057
- Tydeus parainflatu***  
forest trees, Sweden 8057  
taxonomy, new species 8057
- Tylenchorhynchus vulgaris***, insecticides, effects 9749
- Tynacantha marginata***  
*Eucalyptus*, forests, Brazil 1661  
prey, Lepidoptera 1661
- Typha latifolia***, pollen, *Euseius mesembrinus* 3220
- Typhaceae**, *Phthorimaea operculella* 4487
- Typhaea stercorea***  
cereal grains, South Carolina 4809  
ecology, population dynamics 6871  
monitoring 4808  
predators 5741  
wheat, commodities, Kansas 4808, 6871
- Typhaea stercorea***, barley, commodities, Montana 5741
- Typhlocyba pomaria***  
apples  
New York 4557  
Washington 8757  
*Edwardsiana rosae*, interactions 4557
- Typhlodromalus***  
*Citrus*, orchards, Southern Africa 1567  
prey, *Scirtothrips aurantii* 1567
- Typhlodromalus limonicus*** (see *Amblyseius limonicus*)
- Typhlodromina camelliae***, *Citrus*, orchards, Sao Paulo 8786
- Typhlodromus***  
Japan 3106  
taxonomy 1559  
vineyards, Hungary 1559
- Typhlodromus athiasae***, plant extracts, toxicity 6305
- Typhlodromus australicus***  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus calabriae***  
Greece 4858  
taxonomy 4858
- Typhlodromus carmonae***  
Greece 4858  
taxonomy 4858
- Typhlodromus commenticius***  
Greece 4858  
taxonomy 4858
- Typhlodromus doreenae***  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus dossei***  
prey, mites 9868  
vineyards, Australian Capital Territory 9868
- Typhlodromus exhilaratus***  
biology, reproduction 5173  
prey, *Tetranychus urticae* 5173
- Typhlodromus heveae***, taxonomy 8056
- Typhlodromus kykladiticus***  
*Spartium junceum*, Greece 4858  
taxonomy, new species 4858
- Typhlodromus occidentalis*** (see *Metaseiulus occidentalis*)
- Typhlodromus olympicus***  
*Buxus sempervirens*, Greece 4858  
taxonomy, new species 4858
- Typhlodromus peribibus***  
taxonomy 1559  
vineyards, Hungary 1559
- Typhlodromus phialatus***  
biology, behaviour 2131  
orchards, Spain 2131  
prey, *Panonychus citri* 2131
- Typhlodromus pruni***, taxonomy, synonyms, of *Seiulus finlandicus* 8056
- Typhlodromus pyri***  
acaricides, effects 7837  
*Amblyseius andersoni*, biological competition 5524
- apples  
orchards  
Germany 5524, 6642  
New Zealand 6632  
Nova Scotia 2558, 9839, 10850  
Oregon 4554  
Poland 5519
- biology  
behaviour 2558, 4124, 6667  
interspecific competition 4554  
intraspecific competition 9438
- control  
Acari, apples 4553, 9839  
*Panonychus ulmi*, apples 10850  
*Tetranychus mcDanieli*, grapes 1558  
*Tetranychus urticae*, hops 12049
- distribution, Slovakia 7279
- ecology  
population density 6642  
population dynamics 6667, 10850
- fertilizers, effects 10850
- fungicides, effects 8774
- grapes, habitats, Germany 6667
- hops, fields, Oregon 12049
- insecticides, effects 5519
- pesticides, effects 9839
- pome fruits, orchards, Belgium 1534
- predators 6667
- prey  
Acari 5524  
arthropod pests 4124  
*Panonychus ulmi* 2558  
*Tetranychidae* 6642  
*Tetranychus urticae* 9438
- taxonomy 1559
- vineyards  
France 1558  
habitats 4124  
Hungary 1559, 7837
- Typhlodromus rodopiensis***  
*Quercus*, Greece 5643  
taxonomy, new species 5643
- Typhlodromus simplex***  
Greece 4858  
taxonomy 4858
- Typhlodromus wonkooi***  
Korea Republic 2036  
taxonomy, new species 2036
- Tyria jacobaeae***  
control, *Senecio jacobaeae* 3691  
ecology, interspecific competition, models 11014  
pheromones 4941  
pyrrolizidine alkaloids, metabolism 4928  
*Senecio jacobaeae*  
Oregon 3691  
UK 11014
- Tyrophagus longior***  
hive products, India 4790  
garlic, commodities 10040-10041  
soyabean flour, Italy 6879
- Tyrophagus putrescentiae***  
biology  
behaviour 852  
environmental factors 1066  
commodities 852  
predators 6613  
stored products, Italy 6879
- UC 51672**, control, *Amsacta moorei*, guar 9772
- Udea ferrugalis***  
maize, Italy 5419  
monitoring, traps 5419
- Uganda**  
chickpeas, *Helicoverpa armigera* 6545  
Diptera 10303  
Nymphalidae 1137, 4034  
*Selenaspis articulatus*, parasitoids 7283
- UK**  
*Abies grandis*  
*Epinotia fraternana* 2842  
forests, *Bassus epinotiae* 2842  
*Acer campestre*, insect pests 11999  
*Acer pseudoplatanus*, *Drepanosiphum platanoidis* 5652  
*Achillea ptarmica*, *Macrosiphoniella millefolii* 8006  
Aculeata 3120, 11350  
Aphididae 1062, 1394, 5109  
*Aphis fabae*, predators 8256  
*Apis mellifera*  
ectoparasites 11426  
pesticides, poisoning 5315
- apples  
*Eriosoma lanigerum* 8752  
*Pieris brassicae* 4547
- Araneidae 199
- arthropods 9283  
introduced species 2023
- barley  
fields  
Carabidae 6035, 6452, 7673  
Linyphiidae 10701
- beetroots, *Agrotis segetum* 6457  
*Bemisia tabaci* 4220  
beneficial arthropods 7245  
beneficial insects 4308  
biological control, reports 1784
- Brassica**  
*Delia radicum*, predators 5493  
*Plutella xylostella* 7778
- broadleaves, arthropods 11348
- Brussels sprouts  
*Brevicoryne brassicae*, predators 4404  
*Pieris brassicae* 4509  
*Plutella xylostella* 5491
- Calathus cinctus* 2837  
*Callimorpha dominula*, parasitoids 4095  
canes and rattans, *Micrapate xyloperthoides* 3115
- Carabidae 7244  
*Cerceris arenaria* 9293, 11325
- cereals  
Aphididae 2405, 5400, 10687  
natural enemies 3427  
*Delia coarctata* 534  
fields  
Araneae 1422  
Heteroptera 7241  
*Ceutorhynchus assimilis* 522  
Chrysomelidae, books 12101  
*Cicindela germanica* 3074  
*Cirsium vulgare*, *Eucosma cana* 6859  
*Citrus*, *Aleurothrixus floccosus* 11901  
*Coccinella septempunctata* 9335  
*Coccinellidae* 3227  
*Cochylis molliculana* 4039  
*Colias crocea* 7272  
crops, insect pests 2792  
*Cryptolestes ferrugineus* 5753  
*Cytisus praecox*, *Aceria genistae* 1713  
*Delia radicum* 7503  
Diptera 10298  
*Drasophila hydei*, parasitoids 335  
ecology, reports 3715  
*Enoplognatha ovata* 202  
Epermeniidae 8318  
*Epilobium hirsutum*, *Mompha divisella* 6027
- faba beans  
*Aphis fabae* 4474  
*Sitona lineatus* 4473  
*Fagus*, *Xyleborinus saxeseni* 3103  
*Fallopia convolvulus*, *Gastrophysa polygoni* 10696  
farming systems 7645  
field crops  
Coleoptera 7566  
*Deroceras reticulatum* 10807
- fields  
Cryptostigmata 3069



**UK cont.**  
 fields *cont.*  
   Elateridae 3309  
   Linyphiidae 7336  
 foods, *Liposcelis bostrychophilus* 8020  
 forest trees  
   Acari 11347, 11979  
   Alnetoidia alneti 2688  
 forests, pests 889  
*Fraxinus excelsior*, Prays fraxinella 2670, 9975  
 fruit vegetables  
   Frankliniella occidentalis 625  
   greenhouses, Orius laevigatus 625  
 fruits, insect pests 10840  
 galls 11283  
   insects 6947  
 Gastropoda, introduced species 2023  
 Gelechiidae 8303  
 genetic variation, conferences 10065  
 grasses  
   Eurytomidae 3743  
   habitats, predatory arthropods 9380  
 grasslands  
   Auchenorrhyncha 3029  
   Carabidae 5453  
   Diptera, parasitoids 3935  
   Gastropoda 8669, 11009  
   Isopoda 1089  
 habitats, Carabidae 5074  
 hedges  
   Syrphidae 7185  
   Yponomeuta padellus, natural enemies 6748  
*Helix aspersa* 4134  
 horse manure, Hypoponera punctatissima 3079  
 insecticides  
   legislation 2242  
   reports 862  
 insects 8392  
*Inula crithmoides*, Myopites longirostris 7273  
 Isopoda 1794  
*Janetiella lemeei* 3123  
*Karnyothrips melaleucus* 2852  
 Laboulbeniales 1251  
 Lampyridae, books 6926  
 lawns and turf  
   insect pests 10988-10989  
   Stenobothris stigmaticus 3669  
 Lepidoptera 2876, 6081, 10320, 11382, 11384  
   books 8046  
*Ligularia dentata*, Lasius niger 7181  
*Lolium perenne* 6505  
*Lutra lutra*, pesticide residues 5324  
*Lymnaea peregra* 4132  
 maize, fields, Syrphidae 7676  
*Mamestra brassicae*, pathogens 6241  
 man, pesticides, poisoning 10570  
*Maniola jurtina* 7243  
 marine structures, Pselactus spadix 12081  
*Meligethes* 3104  
*Mentha aquatica*, Chrysomelidae 7994  
*Metopia* 11130  
*Operophtera brumata*, predators 11980  
 Opiliones 1793  
 ornamental plants  
   Bradysia 793  
   greenhouses, Stratiolaelaps miles 793  
 Orthoptera 10321  
*Pararge aegeria* 9333  
*Pardasena virgulana* 3102  
 pasture plants, herbivores 5451  
 peas, arthropods 6080  
 peatlands, Carabidae 8289  
 pesticides  
   directories 6932  
   environmental impact 2370  
   legislation 2250, 8485  
   usage 6294  
 Phyllonorycter, parasitoids 9422  
*Picea*, Dendroctonus micans 770  
*Picea abies*, Aphididae 8922  
*Picea sitchensis*  
   Elatobium abietinum 2710, 6794  
   Hylobius abietis 1700  
*Pieris brassicae* 11618  
*Pinus*, Pityophthorus lichtensteini 3657

**UK cont.**  
*Pinus contorta*, Zeiraphera diniana 7950  
*Pinus sylvestris*, arthropods 2696  
 plant protection 11536  
 plants, arthropods 2397  
*Platanus*, Phyllonorycter platani 8946  
 plums, Phorodon humuli 6657  
*Polyommatus icarus* 11158  
 potatoes, fields, Carabidae 11791  
*Prunus padus*, Yponomeuta evonymellus 12003  
*Pyracantha*, Phyllonorycter leucographella 8946, 12029  
*Quercus*  
   Coleoptera 729, 774  
   Cynipidae 10937  
   Cynipinae 7918  
 raspberries, Amphorophora idaei 7827  
*Rhamnus cathartica*, Trichochermes walkeri 3652  
*Rhopalocera* 6092, 6101, 7238, 10282, 10492, 11351  
*Rhopalosiphum padi* 5036  
*Rubus*, Cantharis obscura 4569  
*Rumex crispus*, Gastrophysa viridula 4784  
*Salix*, Pontania 7924  
 salt marshes, pesticide residues 4344  
*Sansevieria*, Suocerathrips linguis 2852  
 sarson, pests 5571  
 Scolytidae, quarantine 2248  
*Senecio jacobaea*, natural enemies 11014  
*Serratula tinctoria*, Tephritidae 8985  
 sewage sludge, pesticide residues 6381  
*Silpha obscura* 8288  
 soil, pesticide residues 512  
 soil arthropods 9572  
*Sonchus asper*, Aulacidea follioti 3124  
*Stephanitis rhododendri* 9353  
 stored products pests 5744  
*Taxus baccata*  
   habitats, parasitoids 1134  
   Taxomyia taxi, parasitoids 1134  
*Thrypticus smaragdinus* 7290  
*Thymus praecox*, Chrysolina cerealis 8287  
*Tilia europaea*, Eriophyidae 7930  
*Torymus* 1826  
*Ulmus*, Scolytus 8883  
*Vespa crabro* 3039  
 water, insecticide residues 509, 6392  
 weeds, habitats, Syrphidae 832  
 wheat  
   Aphididae 7656  
   predators 543  
   commodities, arthropod pests, predators 4802  
 fields  
   arthropods 5410, 10691  
   beneficial arthropods 4409  
   beneficial insects 7496  
   Centromerus minutissimus 5  
   Coccinella septempunctata 10697  
   Gastrophysa polygoni 10696  
   insect pests 4409  
   Opomyza florum 7652  
   Sitobion avenae 7672, 10697  
   predators 4408  
   Sitodiplosis mosellana 2411  
   slugs 546, 4405  
 wild plants, invertebrates 7659  
 woodlands  
   Coleoptera 3632  
   Cryptostigmata 3069  
   Ladoga camilla 8288  
   Neuroptera 3633  
**Ukraine**  
 apples, Tortricidae 2559  
 broadleaves  
   forests, Trichogramma telengai 1653  
   Tortrix viridana 1653  
*Chorthippus* 5123  
 crops, pest control 6420  
 grapes, Tetranychus urticae 6670  
 integrated pest management 6915  
 peaches, arthropod pests 11864  
*Pinus*, Rhyscia buoliana 6791-6792  
 potatoes, insect pests 6559, 9774  
 wheat  
   Eurygaster integriceps 537  
   insect pests 11724

*Ulex europaeus*  
 Agonopterix ulicetella 11013  
 biological control agents, evaluation 11013  
*Deinacrida*, New Zealand 1076  
*Tetranychus lintearius* 6847  
**Ulmaceae**, Cerambycidae 3530  
**Ulmus**  
*Idiocerus ulmus*, Heilongjiang 10098  
*Panonychus thelytokus*, Hokkaido 5838  
*Pyrhalta luteola*, Victoria 4707-4708, 4710, 8881  
**Ulmus americana**  
*Oncideres cingulata*  
   damage 11983  
   Missouri 11983  
**Ulmus davidiana**  
 Aphididae  
   galls 4712  
   Hokkaido 4712  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus davidiana var. japonica**  
*Kaltenbachiella japonica*  
   galls 6763  
   Hokkaido 6763  
**Ulmus davidiana wilsoniana** × *Ulmus pumila*  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus glabra**  
 Lepidoptera, Finland 2657  
*Polygonia c-album* 530, 4387  
*Pyrhalta luteola*, Victoria 4709  
*Scolytus*, UK 8883  
*Scolytus laevis*, Norway 747  
**Ulmus laevis**  
 Coleoptera  
   Italy 8937  
   resistance 8937  
 Lepidoptera, Finland 2657  
**Ulmus macrocarpa**  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus minor**  
 Coleoptera, Uzbekistan 746  
*Scolytus*, UK 8883  
**Ulmus procera**  
 habitats, Hymenoptera, California 2671  
 insect pests, California 2671  
 parasitoids, California 4711  
*Pulvinaria regalis* 5634  
*Pyrhalta luteola*  
   California 745, 4711  
   Victoria 4709  
*Scolytus*, UK 8883  
**Ulmus pumila**  
 habitats, Hymenoptera, California 2671  
 insect pests, California 2671  
 parasitoids, California 4711  
*Pyrhalta luteola*  
   California 745, 4711  
   Illinois 9976  
   Nebraska 6764  
   resistance 9976  
**Ulmus pumila** × *Ulmus americana*  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus pumila** × *Ulmus parvifolia*  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus szechuanica**  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Ulmus wilsoniana**  
*Pyrhalta luteola*  
   Illinois 9976  
   resistance 9976  
**Uloboridae**, morphology, silk 4891  
*Uloborus glomosis*, morphology, silk 4891  
*Ulocadum atrum*, vectors, Frankliniella occidentalis 3579  
**Ulmoides dermestoides**  
 prey, Acanthognathus rudis 6055  
 radiation, effects 8239



- Ulotingis nitor**  
*Acra sellowiana*  
 damage 4603  
 Santa Catarina 4603
- Ultracoelostoma**, *Nothofagus*, New Zealand 4713
- Ultraviolet radiation**  
 effects  
*Bacillus thuringiensis* 2192  
*Beauveria bassiana* 3263  
*Bemisia tabaci* 10821  
 pathogens, assessment 9479
- Umbelliferae**, *Papilio polyxenes* 964
- Ummeliata insecticeps**  
 ecology  
 habitats 3452  
 population dynamics 11750  
 pesticides, effects 6169  
 prey, insects 11750  
 rice  
 fields  
 China 3452, 11750  
 Hunan 6169
- Unaspis citri**  
*Citrus*  
 Florida 7847  
 Queensland 4588  
 control, biological control 7847  
 parasitoids 6969
- Unaspis euonymi**  
*Euonymus japonicus*, Virginia 10001  
 natural enemies 10001
- Unaspis yanonensis**  
*Citrus*, quarantine 11902  
 oranges, Guizhou 7851  
 predators 7851, 10374
- Undecane**  
 pheromones, *Formica lugubris* 973  
 secretions, *Lincus* 4885
- n-Undecane**, secretions, *Lincus* 4885
- Undecene**, secretions, *Lincus* 4885
- Uniconazole**, effects, *Spodoptera eridania* 4250
- United Arab Emirates**, Isopoda 2040
- Unkanodes sapporonus**  
 control, chemical control 3466  
 rice, Zhejiang 3466
- Unnata**, Oriental Region 49
- Upper Volta** (see Burkina Faso)
- Uranilidae**, morphology, sense organs 3785
- Urban areas**, Carabidae, Germany 1063
- Urban soils**, arthropods, Japan 7177
- Urentius hystericellus**  
 biology 5386  
 control 5386  
 crops, Middle East 5386
- Urera baccifera**, *Lamponius portoricensis*, Puerto Rico 3686
- Urine**, insecticides, residues 494, 11653
- Uroleucon**  
 morphology 4888  
 predators 7016
- Uroleucon ambrosiae**  
 ecology, population dynamics 8972  
*Iva frutescens*, Rhode Island 8972  
 melons, Mexico 3532  
 monitoring, traps 5463  
*Phaseolus vulgaris*, Venezuela 5463  
 plant pathogens, transmission 3532  
 predators 8972
- Uroleucon carthami**  
 control, chemical control 3580  
 safflower, Maharashtra 3580
- Uroleucon compositae**  
 control, chemical control 12047  
 insecticides, toxicity 11584  
 safflower, Maharashtra 12047
- Uroleucon jaceae**  
 biology, life history 7176  
*Centaurea jacea* 7176, 12060  
 parasitoids 12060
- Uroleucon nigrutuberculatum**  
 ecology, distribution 6067  
*Solidago altissima*, North Carolina 6067
- Uroleucon pseudambrosiae**  
 lettuces, secretions, effects 9807  
 plant pathogens, transmission 4537  
 watermelons, Florida 4537
- Uroleucon sonchi**  
 control, chemical control 11925  
 safflower, Maharashtra 11925
- Uroleucon tissoti**  
 ecology, distribution 6067  
*Solidago altissima*, North Carolina 6067
- Uromenus**, taxonomy 8095
- Uromyces rumicis**, *Gastrophysa viridula*, interactions 4784, 11012
- Uroobovella variseta**  
 taxonomy, new species 8070  
 USA 8070
- Urophora affinis**  
 biology 1074  
 diets 1074
- Urophora cardui**, Cardueae, Germany 8986
- Urophora jaculata**  
*Centaurea solstitialis*  
 Italy 5729  
 resistance 5729
- Urophora quadrifasciata**  
 biology 1074  
*Centaurea solstitialis*  
 Italy 5729  
 resistance 5729  
 diets 1074
- Urophora sirunaseva**  
*Centaurea solstitialis*, USA 2750  
 control, *Centaurea solstitialis* 2750
- Urophora solstitialis**  
*Carduus nutans*, New South Wales 831  
 control, *Carduus nutans* 831
- Urophora spoliata**  
*Serratula tinctoria*  
 galls 8985  
 UK 8985
- Urophorus humeralis**  
 apricots, New South Wales 1546  
 biology, phenology 7822  
 dates, California 6674  
 ecology, population dynamics 7822  
 food plants, Italy 11845  
 monitoring, traps 7822, 11845  
 pheromones 1546, 6674  
 stone fruits, New South Wales 7822
- Uropoda liffreana**  
 France 8071  
 taxonomy, new species 8071
- Uropodina**, *Pinus*, forests, Poland 5675
- Urostylidae**, morphology, mouthparts 1862
- Ursus maritimus**, organochlorine compounds, residues 1342
- Urtica dioica**  
*Dasineura urticae*  
 galls 1759  
 Germany 1759  
 extracts  
 effects, *Brevicoryne brassicae* 816  
 toxicity, *Nilaparvata lugens* 8478  
*Polygonia c-album* 530, 4387
- Urtica morifolia**, *Vanessa indica*, Europe 3114
- Uruguay**  
 Araneae 8321  
*Neopachytichius squamosus* 5822  
*Solanum elaeagnifolium*  
*Metriona elatior* 8002  
 natural enemies 4782
- USA**  
 Acari 8070  
*Acmaeodera* 9055  
*Acyrtosiphon pisum* 174  
 agriculture, reports 9024  
*Allonemobius* 6002  
*Anticarsia gemmatilis* 5245  
 Aphidoidea, predators 6164  
*Apis mellifera*, natural enemies 8399  
*Aristolochia macrophylla*, *Battus philenor* 10010  
 Asteraceae, *Dichomeris* 12063  
*Baccharis*, *Stobaera pallida* 827  
 barley, *Mayetiola destructor* 9690  
*Basilarchia archippus* 11231  
 biological control agents 11542  
 legislation 5275  
 broadleaves, *Symmerista* 1151  
*Centaurea solstitialis*, natural enemies 11025  
 cereal grains, insect pests 2772  
*Chionaspis*, natural enemies 1220  
*Cirsium arvense*, *Terellia ruficauda* 5728  
 Coccinellidae 204, 4041  
 coffee, commodities, insecticide residues 2787
- USA cont.**  
*Coleophora* 1797  
 commodities, pesticide residues 7572  
 cotton  
 integrated pest management, reviews 5603-5604  
 pest control 3623  
*Spodoptera exigua*, natural enemies 6735  
 Crabro, prey 8373  
 crops  
 insect pests, predators 4393  
 integrated pest management 6280, 6413-6414  
*Dioryctria disclusa* 10232  
*Drosophila* 2744  
*Erythroneura*, parasitoids 7342  
*Fagus grandifolia*, *Cryptococcus fagisuga* 2667  
 fishes, pesticide residues 6363  
 food plants, *Empoasca fabae* 6026  
 foods, insecticide residues 2321  
 forests, *Lymantria dispar* 4210  
*Frankliniella occidentalis* 7167  
 fruits, *Anastrepha suspensa* 1778  
 grapes, *Vitacea polistiformis* 5542  
 grasses, Cicadellidae 6518, 8088  
 groundwater  
 insecticide residues 6387  
 pesticide residues 9638  
*Heliothis* 4863  
*Heliothis australis* 4863  
*Heliothis virescens* 5296  
*Hemileuca* 1129  
*Hemileuca electra* 8677  
 insecticides  
 books 894  
 legislation 6929  
 risk, legislation 405  
 integrated pest management  
 conferences 3721  
 food safety 10478  
 lemons, insecticide residues 468  
*Lymantria dispar* 2656  
 maize, fields, *Macrocentrus grandii* 7063  
 man, pesticides, effects 10571  
 National Parks, invertebrates 11343  
*Occidryas editha* 10235  
*Orgyia pseudotsugata* 4156  
 ornamental plants, insect pests 3737  
 ornamental woody plants, integrated pest management, books 6928  
 pecans, pests 8797  
 pesticides  
 effects 2357  
 legislation 1384-1385, 2252, 2265, 10525  
 marketing 10531  
 nontarget effects 2306  
 productivity 418  
 registration 10529  
 residues, legislation 3598  
 safety 10533  
 usage 3623, 6280  
 economics 10524  
 safety 419  
*Pinus*, insect pests 6782  
*Prosopis velutina*, *Thasus neocalifornicus* 9065  
 Psocoptera 5771  
*Rhagoletis* 7148  
*Schistocerca gossypii* 6061  
*Solenopsis* 8340  
*Solenopsis invicta* 6113  
*Sterna caspia*, pesticide residues 1346  
 stored products, integrated pest management 6877  
 stored products pests, predators 6168  
*Taeniothrips inconsequens* 1150  
*Tomicus piniperda* 6793  
 turtles, insecticide residues 3372  
*Vaccinium*, pest control 8769  
 water  
 insecticide residues 2369  
 pesticide residues 9647  
 weeds, biological control 2215  
 wheat  
*Diuraphis noxia* 6433  
 insecticide residues 468  
*Mayetiola destructor* 4402, 6435, 9687



USA cont.

wheat cont.  
*Schizaphis graminum* 9686

Alabama  
cotton, *Anthonomus grandis* 2642  
forest trees, *Lymantria dispar* 2653  
groundnuts, *Elasmopalpus lignosellus* 686  
pecans, *Cydia caryana* 4611, 9906  
sediment, insecticide residues 1345, 3377, 8580  
weeds, natural enemies 2756

Alaska  
forest trees, *Papilio canadensis* 3634  
forests, *Dendroctonus rufipennis* 8897  
grasses, *Commellus cedilla* 8088  
marine mammals, pesticide residues 472  
*Picea glauca*, *Dendroctonus rufipennis* 771  
*Picea* × *lutzii*, *Dendroctonus rufipennis* 2707  
*Salix*, insect pests 7921  
*Salix lasiandra*, *Nematus calais* 1674  
wild plants, Acrididae 3689

Arizona  
*Brachystola magna* 5059  
Bruchidae, parasitoids 4766  
*Cercidium microphyllum*, insect pests 7926  
*Chrysomellus nauseosus*, *Aciurina trixa* 2727

cotton  
*Bemisia argentifolii* 10913  
*Bucculatrix thurberiella* 4663  
insect pests 706  
predators 712  
*Pectinophora gossypiella* 3620  
*Diatraea grandiosella* 11275  
food plants, *Taeniopoda eques* 8259  
grasslands, Orthoptera 5261  
*Juniperus*, insects 12019  
lettuces  
fields, Hymenoptera 4516  
*Liriomyza* 4516  
*Myzus persicae* 6596  
melons, *Bemisia tabaci* 4538, 4542, 9819  
*Pinus*, insect pests 10963  
*Pinus edulis*, *Dioryctria albiovittella* 7939  
*Populus*, *Chrysomela scripta* 8878  
*Populus fremontii*, *Pemphigus obesinymphae* 5649  
*Pseudotsuga menziesii*, *Choristoneura occidentalis* 9998  
*Quercus emoryi*, *Cameraria* 1664  
*Salix exigua*, *Disomyza pluriligata* 4704  
*Salix lasiolepis*  
arthropod pests 11995  
*Euura lasiolepis* 4703  
sorghum, *Helicoverpa zea* 2191  
water, insecticide residues 6385

Arkansas  
cotton  
*Anthonomus grandis* 9958  
*Aphis gossypii* 11964, 11967  
*Heliothis virescens* 11966  
*Lygus lineolaris* 709  
cowpeas; insect pests 8702  
groundwater, insecticide residues 10667  
*Opuntia*, *Zophodia prodenialis* 1758  
rice, pest control, reports 6903  
*Solenopsis invicta* 3180  
sorghum  
fields, predatory arthropods 9715  
*Helicoverpa zea* 9715  
*Vaccinium corymbosum*, pesticide residues 5756

California  
*Abies concolor*  
*Mindarus kinseyi* 10975  
*Scolytus ventralis* 777  
*Acer saccharinum*, *Drepanaphis acerifoliae* 8864  
almonds, arthropod pests 6700  
*Ambrosia*, *Euaerista stigmatica* 12059  
*Apis mellifera*, ectoparasites 7353, 9449

USA cont.

California cont.  
apples  
*Cydia pomonella* 4558, 11851  
insect pests 10853  
orchards, Carabidae 4558, 11851  
*Phyllonorycter*, parasitoids 2551  
*Atriplex polycarpa*, *Orthozia annae* 6185  
*Baccharis sarothroides*, *Tephritis arizonensis* 829  
*Bactrocera dorsalis* 9350  
birds, pesticide residues 11624  
*Brickellia*, *Procecidochares flavipes* 2726

broccoli  
Aphididae 9804  
parasitoids 6587  
*Brevicoryne brassicae* 4508, 7766  
Bruchidae, parasitoids 4766  
cassava, habitats, *Amblyseius limonicus* 5478

celery  
Aphididae 10808  
*Liriomyza huidobrensis* 10809  
*Celtis sinensis*, *Coccus pseudomagnoliarum* 8864  
*Centaurea solstitialis*, natural enemies 2750  
*Ceratitis capitata* 7506  
*Chamaelea uncinatum*, *Oncas-tichus goughi* 10997

Citrus  
*Aonidiella* 4590, 9890  
*Aonidiella aurantii* 665  
arthropod pests 8787  
orchards, *Aphytis melinus* 3958

cotton  
*Aphis gossypii* 1636  
*Bemisia argentifolii* 6732  
*Bemisia tabaci* 4659, 8841  
fields, insects 1636  
integrated pest management 9964  
*Pectinophora gossypiella* 708, 4671-4672, 8843  
*Trichoplusia ni* 10920

crops  
*Bemisia argentifolii* 10794  
*Lygus hesperus* 4661  
*Dalya* 3776  
*Danaus plexippus* 5080, 9289  
dates, Nitidulidae 6674  
*Dendroctonus brevicornis* 11976  
*Drosophila* 10231, 11141  
*Drosophila obscura* group 8297  
*Erigeron glaucus*, insects 6842  
*Erythroneura elegantula*, parasitoids 7342  
*Eucalyptus*, *Phoracantha semipunctata* 6753-6754, 6814

field crops  
insect pests 4664  
*Spodoptera exigua* 6407

fishes, insecticide residues 8551

food plants  
*Bemisia tabaci* 6595  
*Papilio zelicaon* 11316

forest trees  
insect pests 2646  
*Paranthrene robiniae* 4686  
*Formica* 1194  
grapefruits, *Aonidiella aurantii*, natural enemies 8788

grapes  
*Erythroneura variabilis* 11879  
habitats, *Anthoseius caudiglanis* 11875  
insect pests 9878  
Tetranychidae 11880  
*Viteus vitifoliae* 11881  
greenhouse crops, insect pests 8450  
groundwater  
insecticide residues 4343  
pesticide residues 496, 9640  
*Holocnemus pluchet* 6193  
*Hydrilla verticillata*, *Bagous affinis* 2751  
insect pests 10684  
*Larus occidentalis*, insecticide residues 11648

USA cont.

California cont.  
lawns and turf, *Cyclocephala hirta* 791  
lucerne, fields, Hemiptera 4661  
*Lupinus arboreus*, *Orgyia vetusta* 6192, 12004, 12052  
maize, Lepidoptera 9703

man  
insecticides, effects 8531  
pesticides, effects 1361  
*Melanoplus sanguinipes* 186

melons  
Aphidoidea 11910  
*Bemisia tabaci*, parasitoids 6696  
*Mindarus victoria* 10975  
nontarget organisms, insecticide residues 11614  
*Occidryas editha* 1172, 3923  
Onagraceae, *Proserpinus clarkiae* 8945  
*Orgyia vetusta*, predators 4772

ornamental plants  
Aphididae, predators 8940  
nurseries, arthropod pests 9999

ornamental woody plants, *Acizzia uncatoides* 8943  
*Paroxyna genalis*, parasitoids 5016  
peaches, pest management 654  
pest control 382  
extension 10464  
information 10464

Pinopsida  
*Dendroctonus brevicornis* 7936  
Scolytidae 10961  
*Pinus jeffreyi*, *Dendroctonus* 6781  
*Pinus ponderosa*, *Ips pini*, natural enemies 7953  
*Pinus radiata*  
Coleoptera, parasitoids 8913  
*Zootermopsis nevadensis* 768  
*Porcellio scaber* 1254  
*Prunus salicina*, *Tetranychus* 6655  
*Pseudotsuga menziesii*, *Pityophthorus orarius* 7961

*Quercus*  
*Andricus californicus* 1667  
*Xyleborus* 5644  
*Quercus wislizenii*, Curculionidae 3638  
*Reticulitermes hesperus* 5185

rice  
fields, pesticide residues 1378  
*Lissorhoptrus oryzophilus* 8667  
roses, *Tetranychus* 12028  
Scrophulariaceae, *Occidryas editha* 11327  
sediment, insecticide residues 3377  
*Sequoia sempervirens*, habitats, soil arthropods 10930  
soil, pesticides, degradation 497  
*Spartina alterniflora*, *Prokelisia marginata* 2752

stone fruits  
*Anarsia lineatella* 3539  
orchards, parasitoids 3539

strawberries, *Lygus hesperus* 8772-8773  
sugarbeet, *Circulifer tenellus* 5802  
*Tilia*, *Eucallipterus tiliae* 8887

tomatoes  
insect pests 635  
integrated pest management 7789  
Lepidoptera 6407  
*Spodoptera exigua* 4526  
trees, *Archips argyrospilus* 11982  
*Trichogramma pretiosum* 6184  
*Trichosteresis* 8320

*Ulmus*  
insects 2671  
*Pyrrhalta luteola* 745  
parasitoids 4711

walnuts  
*Amyelois transitella* 4608  
*Paraseiulella profitai* 3762  
*Rhagoletis completa* 4607  
water, insecticide residues 11657  
weeds, *Lygaenus kalmii* 825  
wildlife, pesticide residues 9630  
wood, *Coptotermes formosanus* 6893



## USA cont.

## California cont.

woody plants, *Siphoninus phillyreae* 11996

## Colorado

*Boloria* 1059  
*Boloria acrocnema* 7249  
 cereals, *Schizaphis graminum* 8627  
*Chrysothamnus*, *Triphaba nitidicollis*, predators 4465

Cicindelidae 6983

Coleoptera 4038

forest trees

*Choristoneura occidentalis* 8899

*Dendroctonus rufipennis* 3656

*Glaucopsyche lygdamus* 3922

grasslands

*Opeia obscura* 3941

*Pogonomyrmex occidentalis* 2086

*Linum lewisii*

insects 295

pollinators 295

Lycanidae 220

*Lytta nuttalli* 11301

maize, *Diabrotica virgifera* 9705

*Melanoplus bivittatus* 9334

Miridae 2044

*Pascopyrum smithii*, Acrididae 4454

*Penstemon*, *Occidryas chalcidona*

3861

*Philanthus* 9292

Pieridae 7206

*Pinus ponderosa*, *Dendroctonus*

*ponderosae* 12013

*Pogonomyrmex occidentalis* 4083,

8395, 11168, 11409

*Quercus*, *Disholcaspis quercus-*

*mamma* 8874

*Reticulitermes tibialis* 8395

Sesiidae 515

wheat

*Diuraphis noxia* 11725

fields

*Aphidius colemani* 4401

Hymenoptera 11725

*Yucca glauca*, *Tegeticula yuccasella*

4749

## Connecticut

apples

orchards, *Sympiesis marylandensis*

9837

*Phyllonorycter crataegella* 9837

asparagus, *Crioceris* 10814

broadleaves

forests, Formicidae 4688

*Lymantria dispar* 4688

*Castanea dentata*, *Synanthedon cas-*

*taneae* 253

forests, Formicidae 4680

golf courses, *Blitopertha orientalis*

6815

*Lambdina fervidaria* 4379

*Tsuga*, *Lambdina fervidaria*

*athasaria*, natural enemies 2708

*Tsuga canadensis*, *Adelges tsugae*,

predators 12018

## Delaware

*Cucurbita texana*, *Epilachna borealis*

6621

fields, habitats, predators 3049

Mantidae 226

*Mantis religiosa* 4035

potatoes, *Leptinotarsa decemlineata*

9775

## Florida

*Anastrepha suspensa* 4222, 4364

*Annona*, pollinators 4601

Asclepiadaceae, *Danaus gilippus*

4025

Asteraceae, *Asphondylia borrichiae*

10985

*Automeris io* 7482

avocados, *Pseudocysta perseae* 5561

biological control agents, introduction

4211

*Borrichia frutescens*, insects 5706

cabbages, *Plutella xylostella* 6575,

10803

*Capsicum*, *Polyphagotarsonemus*

*latus* 8746

## USA cont.

## Florida cont.

*Capsicum annuum*, *Anthonomus eugenii* 4532

*Citrus* 4593

*Aleurocanthus woglumi* 3554

*Anastrepha suspensa* 1571-1573,

1777, 1780

arthropod pests 11896

commodities, *Anastrepha sus-*

*pensa* 1776, 1779

*Frankliniella bispinosa* 259

habitats, *Aleurodothrips fas-*

*ciapennis* 5554

orchards, *Endaphis maculans*

4593

pest control 3560

*Phyllocoptruta oleivora* 7850

Thysanoptera 5554

*Unaspis citri* 7847

Coleoptera 4043

cotton

*Anthonomus grandis* 2642

fields, Hymenoptera 4667

Noctuidae 4667

crops, *Metamasius hemipterus* 2239

*Cucurbita pepo*

*Bemisia tabaci* 5510

insect pests 11835

Cucurbitaceae, *Diaphania nitidalis*

6616

culinary herbs, insect pests 6832

Curculionidae 5073

*Drosophila melanogaster* 9255

*Eugenia uniflora*, *Anastrepha sus-*

*pensa* 673

food plants, *Metamasius callizona*

5385

forest trees, *Lymantria dispar* 404,

2653

forests, Coleoptera 11978

Formicidae 6093

*Gossypium thurberi*, *Bucculatrix*

*thurberiella* 2741-2742

grapefruits, *Phyllocnistis citrella*

10879

groundnuts

*Bemisia argentifolii* 10901

*Bemisia tabaci* 4631

fields, Aphelinidae 4631

*Guaiacum sanctum*, *Toumeyella lig-*

*numvitae* 11

*Incisitermes schwarzi* 1231

insect pests 10323

insects 10324

introduced species 1199

invertebrates, pets 10325

*Ipomoea*, *Chelymorpha cribraria* 5702

Isoptera 6968

lawns and turf

*Scapteriscus* 4756

Scarabaeidae 10007

Lepidoptera 10398

limes, *Phyllocnistis citrella* 11897

*Lonicera japonica*, Noctuidae 4773

maize

*Spodoptera* 2428

*Spodoptera frugiperda* 6463

man, pesticide residues 1351

mandarins, *Brevipalpus* 2578

marine environment, insecticide resi-

dues 11673

*Monomorium pharaonis* 288, 4084

*Morrenia odorata*, *Toxotrypana*

*curvicauda* 2588

Nymphalidae 7146

*Odontotiaenius floridanus* 5801

oranges

*Phyllocoptruta oleivora* 4589

*Propioselopsis* 5520

*Papilio* 7223

*Pareuchaetes pseudoinsulata* 2216

*Pasimachus* 4033

pawpaws, *Anastrepha suspensa* 11909

pecans, orchards, *Harmonia axyridis*

4609

pest control 6924

*Phyllocnistis citrella* 3551

*Pinus*, Curculionidae 8898

*Pistia stratiotes*, insects 3694

*Pityophthorus pecki* 12

## USA cont.

## Florida cont.

*Plumeria rubra*, *Pseudosphinx tetrio* 8939

*Plutella xylostella* 10539-10540

*Prokelisia marginata*, parasitoids 247

*Quercus*, *Callirhytis* 3640

*Reticulitermes* 10134

*Rhynophorus cruentatus* 3993,

4362, 4376

salt marshes, insects 5165

*Serenia repens*, *Litoprosopus futilis*

3674

soil, pesticides, degradation 497

*Solanum viarum*, *Leptinotarsa decem-*

*lineata* 11024

*Solenopsis invicta* 7222, 9295, 11407

*Solenopsis invicta* × *S. richteri* 5141

*Solidago*, insects 2747

soybeans

fields, predatory arthropods 4468

insect pests 9750

squashes, *Diaphania hyalinata* 9824

*Stenotaphrum secundatum*, *Myndus*

*crudus* 6516

strawberries

arthropod pests 11868

fields, *Phytoseiulus persimilis*

4573, 11867

*Tetranychus urticae* 4573

sugarcane

Elateridae 10904

*Leptodictya tabida* 4636

sweet potatoes, *Cylas formicarius*

2517

*Tillandsia*, *Metamasius callizona*

5385

tomatoes, *Frankliniella* 8741

*Trachymyrmex septentrionalis* 4082

vegetables

*Bemisia tabaci* 11774

*Thrips palmi* 11775

water, insecticide residues 6385

watermelons

Aphididae 4537

*Frankliniella fusca* 10834

weeds, natural enemies 2756

wild plants, *Carneocephala floridana*,

parasitoids 4777

*Yucca elephantipes*, *Scyphophorus*

*acupunctatus* 2718

## Georgia

cereals, insect pests 4398

cotton, *Anthonomus grandis* 2642

cowpeas, *Chalcodermus aeneus* 5469

forest trees, *Lymantria dispar* 2653

grapes, *Vitacea polistiformis* 9866

greenhouse crops, Thysanoptera 787

groundnuts, commodities, insect pests

2780

*Iridomyrmex humilis* 2094

lawns and turf, pest control 4757

*Lonicera japonica*, Noctuidae 4773

maize

commodities, insect pests 6874

*Diabrotica undecimpunctata* 8651

*Helicoverpa zea* 4426, 9706

Noctuidae 2425

*Spodoptera frugiperda* 2424,

6461, 6463, 10707

natural enemies 6462

Nymphalidae 7146

pastures, *Solenopsis invicta* 2095

pecans

Aphididae 4609

habitats, Neuro



## USA cont.

## Georgia cont.

- soil fauna 3395
- Solenopsis invicta* 11278
- soyabeans
  - insect pests 9750
  - Noctuidae 9753
- stored products
  - habitats, *Bracon hebetor* 9613
  - Plodia interpunctella*, parasitoids 9613
- Vespa crabro* 6198
- weeds, natural enemies 2756
- wheat, commodities, Coleoptera 9008

## Hawaii

- arthropods, checklists 3732
- avocados, *Bactrocera dorsalis* 9904
- Bactrocera dorsalis* 4365, 9350
  - parasitoids 1216
- Bactrocera latifrons* 7507
- bananas, *Gaurax perreirai* 5551
- Braconidae 3226, 4109
- Ceratitis capitata* 4367, 4378, 5374, 6285
- coffee, Tephritidae, parasitoids 9940
- Drosophila* 11315
- Encarsia hawaiiensis* 4
- food plants, *Cryptophlebia* 7854
- fruits, *Bactrocera dorsalis* 2236
- guavas
  - Bactrocera dorsalis* 5565, 8795
  - orchards, Hymenoptera 8795
- insects 6396
- Ipomoea acuminata*, Drosophilidae 2723
- Macadamia integrifolia*, *Cryptophlebia* 11919
- marrows, Homoptera 8747
- Operculina tuberosa*, Agrius cingulatus 4753
- plantations, insects 3562
- Platynota stultiana* 9356
- Pritchardia*, *Loulucoris* 11103
- Pseudotsuga menziesii*, wood, *Coptotermes formosanus* 838, 8023
- Rhynchopalpus brunellus* 9056
- Tephritidae, parasitoids 7521

## Idaho

- Aphididae 10451
- aquatic weeds, *Myzus lythri* 11015
- Camponotus* 1988
- cereals, *Schizaphis graminum* 6424
- food plants
  - Hulstia undulata* 1183
  - Myzus persicae* 4175
- Formicidae 2045
- Hypodryas gillettii* 11289
- meadows, *Hypodryas gillettii* 173
- Mindarus victoria* 10975
- Myzus ascalonicus* 7760
- Pinus ponderosa*, *Ips pini* 5666
- potatoes, *Myzus persicae* 7760
- Pseudotsuga menziesii*
  - Choristoneura occidentalis* 9997
  - wood, *Dendroctonus pseudotsugae* 8995
- rape, *Ceutorhynchus assimilis* 11922
- Salvia aethiops*, *Phrydiuchus tau* 3693
- weeds, natural enemies 11026
- wood, Coleoptera 11041

## Illinois

- Agrotis ipsilon* 5070
- atmosphere, pesticide residues 1184
- Baptisia leucantha*, *Apion rostrum* 6141
- Conium maculatum*, Lepidoptera 4783
- crops, insecticide residues 3398
- fungi, *Oxyporus* 6097
- lucerne, *Hypera postica* 6519
- maize
  - Diabrotica* 4425
  - Ostrinia nubilalis* 4424
- Mirabilis nyctaginea*, *Heliodines* 10991
- Nitidulidae 4030
- Pastinaca sativa*, *Depressaria pastinacella* 2743
- Pholiota aurivela*, *Oxyporus stygicus* 1738

## USA cont.

## Illinois cont.

- Salix*, *Plagioderia versicolora* 6762
- soil, pesticides, degradation 497
- Solenopsis molesta* 7972
- Ulmus*, *Pyrrhalta luteola* 9976

## Indiana

- Alliaria petiolata*, *Pieris virginianensis* 5718
- Bromus inermis*, *Simyra henrici*, parasitoids 2475
- cabbages, *Plutella xylostella* 9801
- melons, *Acalymma vittatum* 9822
- Pinus sylvestris*, *Tomicus piniperda* 9991
- potatoes, *Leptinotarsa decemlineata* 3502

## Iowa

- Agrotis ipsilon* 5070
- Apis mellifera* 9514
- apples
  - Cydia pomonella* 9844
  - integrated pest management 9844
- lucerne
  - fields, Coccinellidae 3484
  - insect pests 3484
- maize
  - Helicoverpa zea* 9706
  - Ostrinia nubilalis* 2435
- populus, *Chrysomela scripta* 10223
- soyabeans, *Hypena scabra* 6539
- Vanessa atalanta* 7195

## Kansas

- Asterocampa celtis* 7225
- cereals, *Schizaphis graminum* 8627
- food plants, *Tetranychus urticae* 10717
- lucerne
  - Empoasca fabae* 9745
  - Epicauta* 6520
  - Epicauta occidentalis* 4459, 10749
- pecans, habitats, Neuroptera 2122
- Quercus macrocarpa*, wood, Chrysomelidae 1669
- Silphium integrifolium*, *Antistrophus silphii* 7718
- wheat
  - commodities, insect pests 4808, 6871
  - Diuraphis noxia* 9685
  - Schizaphis graminum* 539, 1427

## Kentucky

- Cercis canadensis*, *Enchenopa binotata* 5661
- forest trees, *Lymantria dispar* 2653
- fruit vegetables, Chrysomelidae 4519
- Juniperus*, *Thyridopteryx ephemeraeformis* 7969
- Nymphalidae 7187
- soyabeans, *Empoasca fabae* 2484
- water, pesticide residues 492

## Louisiana

- Anticarsia gemmatilis* 6260, 10276
- birds, insecticide residues 2327
- Coptotermes formosanus* 3093
- cotton
  - Heliothis virescens* 11966
  - insect pests 2625
- Spodoptera exigua* 6736
- Heliothis virescens* 8506, 9584
- Lagerstroemia indica*, *Saracallis kahawaluokalani* 2719
- Pinus*, *Dendroctonus frontalis* 1685
- Pinus taeda*
  - Dendroctonus frontalis* 9985
  - Hemiptera 7945
- rice, *Lissorhoptrus oryzophilus* 1458, 6483, 11737
- soyabeans 8688
  - Anticarsia gemmatilis* 4469, 11767
  - Chrysodeixis includens* 1474, 7731
  - insect pests 9750
- Spodoptera exigua* 4470
- trees, *Archips argyrospilus* 11982

## Maine

- arthropods 4115
- Clivina pallida* 9359
- Hylastes opacus* 3126
- peatlands, Carabidae 11349

## USA cont.

## Maine cont.

- Pinopsida, *Choristoneura fumiferana* 1682, 2690
- strawberries
  - insect pests 7835
  - Lygus lineolaris* 5538

## Maryland

- Acer saccharum*, *Xiphidria maculata* 8175
- biological control, reviews 6273
- Cirsium arvense*, natural enemies, parasitoids 6854
- Coleomegilla maculata* 1949
- Cornus florida*, Sesiidae 2675
- crops
  - insect pests, predators 9755
  - Manduca sexta*, parasitoids 4641
- forest trees
  - Hypogastrura simsi* 7910
  - Lymantria dispar* 2652
- forests, Carabidae 3080
- insects 3004
- lucerne, *Acyrtosiphon* 2479
- Lymantria dispar* 2183
  - predators 9419
- maize
  - Ostrinia nubilalis* 11732
  - natural enemies 5424
- mulberries, *Pseudaulacaspis pentagona* 7836
- Ostrinia nubilalis* 4375
- parks, *Lymantria dispar* 4684
- pesticides, regulations 417
- Phaseolus vulgaris*, *Epilachna varivestis* 4476
- Phlox, Miridae 12054
- Populus grandidentata*, *Phratora purpurea purpurea* 744
- Pteridium aquilinum*, *Aneugmenus flavipes* 8175
- Quercus*, *Lymantria dispar* 2666, 4697
- soil, insecticides, effects 2362
- Tenodera sinensis* 10382
- Trifolium*, *Tychius cuprifer* 6526

## Massachusetts

- Alliaria petiolata*, *Pieris napi oleracea* 5717
- apples
  - Acari 648
  - insect pests 9832
  - integrated pest management 6641
  - Rhagoletis pomonella* 516, 6636, 9841
- Araneae 3078
- asparagus, *Crioceris* 10814
- broadleaves, *Lymantria dispar* 4687
- Crataegus mollis*, *Rhagoletis pomonella* 5655
- Echium vulgare*, *Longitarsus melanurus* 9302
- food plants, *Acrobasis vaccinii* 7061
- forest trees, *Lymantria dispar* 2652
- fruits, *Rhagoletis pomonella* 4556
- integrated pest management 11551
- Lymantria dispar* 2183, 10491
- marine environment, pesticide residues 2344
- Pieris virginianensis* 8247
- potatoes
  - Leptinotarsa decemlineata* 4496
  - parasitoids 7753
- Quercus*, *Lymantria dispar* 4698
- Quercus rubra*, *Lymantria dispar*, natural enemies 10942
- rivers, pesticide residues 2336
- Rosaceae, *Rhagoletis pomonella* 7817
- Vaccinium*, insecticide residues 3543

## Mexico

- forest trees, *Choristoneura occidentalis* 8896
- Tillandsia*, *Metamasius callizona* 5385

## Michigan

- Acer*, *Corthylus punctatissimus* 3651
- Aphididae, predators 8372
- asparagus, *Crioceris* 10814
- Barbarea vulgaris*, *Plutella xylostella* 5495
- birds, insecticide residues 8550



## USA cont.

## Michigan cont.

- broadleaves, *Lymantria dispar* 732-733  
*Bromus*, seeds, *Pyemotes tritici* 3193  
 Carabidae, ectoparasites 8364  
 celery, *Aphis helianthi* 3520  
 crops, habitats, *Coccinella septempunctata* 5392  
*Diabrotica*, pest control 2316  
*Drosophila* 1099  
 fishes, insecticide residues 7616  
 food plants, *Acrobasis vaccinii* 7061  
 forest trees  
   *Lymantria dispar* 6744, 6746  
   *Papilio canadensis* 3634  
 insects as food 339  
*Larus argentatus*, insecticide residues 4306  
 Lepidoptera 10438  
*Malus* 2552  
*Pinus banksiana*, *Slaterobius quadristriatus* 3659  
*Pinus sylvestris*, Scolytidae 6793  
*Populus tremuloides*, *Malacosoma dissitria* 8879  
 rivers  
   insecticide residues 3355  
   pesticide residues 3356  
 Rosaceae, insect pests 7813  
*Salix*, *Altica bimarginata* 5651  
*Salvelinus namaycush*, insecticide residues 3343  
 soil, *Cryptopygus bipunctatus* 5818  
*Spartina alterniflora*, *Prokelisia marginata* 5175  
*Varroa jacobsoni* 11448  
 water, insecticide residues 6385

## Minnesota

- Diabrotica*, pest control 2316  
 environment, insecticide residues 10654  
*Larus argentatus*, insecticide residues 4306  
*Lepomis macrochirus*, insecticides, nontarget effects 11625  
*Linepithema humile* 2099  
 lucerne  
   fields, parasitoids 4460  
   *Hypera postica* 4460  
 maize, *Ostrinia nubilalis* 10708-10709  
 man, pesticides, effects 7574  
*Ostrinia nubilalis* 9579  
 pesticides, usage 7574  
 ponds, insecticide residues 8585  
*Populus tremuloides*, *Malacosoma dissitria* 8879  
*Quercus*, arthropods 1670  
*Solidago*, *Eurosta solidaginis* 8974  
*Solidago missouriensis*, *Trirhabda canadensis* 4770

## Mississippi

- Apis mellifera* 9514  
 cotton  
   *Anthonomus grandis* 9958  
   *Aphis gossypii* 707, 9960  
   *Heliothis virescens* 2641, 9952, 9957, 11966  
   insect pests 4662  
   Noctuidae 2637  
*Diatraea grandiosella* 11275  
 field crops, *Chrysodeixis includens* 588  
 fields, habitats, beneficial arthropods 5167  
 food plants 4256  
 forest trees, *Lymantria dispar* 2653  
 grapes, *Vitacea polistiformis* 4578  
*Helicoverpa zea* 9257  
*Heliothis virescens* 9584  
 maize, *Spodoptera frugiperda* 6463  
*Pinus taeda*, *Dendroctonus frontalis* 9985  
*Solenopsis* 5141  
*Trypoxylon politum*, parasitoids 8386  
 water, pesticide residues 505

## Missouri

- Agrotis ipsilon* 5070  
 apples, *Phyllonorycter* 645  
*Diatraea grandiosella* 11275

## USA cont.

## Missouri cont.

- forests, arthropods 11403  
*Frankliniella occidentalis* 441  
 lucerne, *Empoasca fabae*, pathogens 11500  
 maize, *Diabrotica virgifera* 2422  
 ornamental plants, *Frankliniella occidentalis* 396  
*Quercus alba*, insect pests 8869  
 trees, *Oncideres cingulata* 11983  
*Trypoxylon politum*, parasitoids 8386  
 Montana  
 Acrididae 4080, 10359  
   parasitoids 9431  
 barley, commodities, insects 5741  
*Chorthippus curtipennis*, pathogens 363  
*Euphorbia esula*, biological control 11032  
 fields, habitats, beneficial insects 3228  
 grasses, *Commellus semicolon* 8088  
 grasslands, Acrididae 581, 3479  
*Leptothorax* 9411  
 meadows, *Hypodryas gillettii* 173  
*Melanoplus* 6146  
*Pinus albicaulis*, *Dendroctonus ponderosae* 762  
 rangelands  
   Acrididae 4451  
   *Melanoplus* 6517

## Nebraska

- Buchloe dactyloides*, *Pseudococcidae* 6506  
 cereals, *Schizaphis graminum* 8627  
*Cirsium canescens*, insects 8975  
 environment, insecticides, degradation 2377  
 grasslands  
   insects 2020  
   predators 2020  
 lucerne, *Hypera postica* 2481  
 maize, *Richia albicosta* 1441  
*Opuntia fragilis*, insects 6858  
*Pogonomyrmex occidentalis* 8290  
 soyabeans, *Ceratomya trifurcata* 10760  
*Ulmus pumila*, *Pyrrhalta luteola* 6764  
 wheat, Aphididae 8633

## Nevada

- Artemisia tridentata*, *Europiella carvalhoi* 11127  
*Drosophila pseudoobscura* 11141  
 food plants, *Euphydryas editha* 8989  
*Trichostereis* 8320

New Hampshire, *Hylastes opacus* 3126

## New Jersey

- aubergines, *Leptinotarsa decemlineata* 6612  
 estuaries, sediment, pesticide residues 8590-8591  
 lawns and turf, *Popillia japonica* 4755  
 maize, *Spodoptera frugiperda* 549  
*Pinus rigida*  
   forests, arthropods 9984  
   *Slaterobius quadristriatus* 3659  
 potatoes, *Leptinotarsa decemlineata* 7757, 9776  
*Quercus*, *Lymantria dispar* 4698  
 sediment, pesticide residues 9635  
 tomatoes, *Leptinotarsa decemlineata* 11827

## New Mexico

- Astragalus mollissimus*, *Cleonis trivittatus* 8988  
 deserts, Isoptera 9452  
 food plants, *Pogonomyrmex barbatus* 8971  
 Formicidae 1191  
 lawns and turf, *Parapediasia teterella* 4758  
*Pogonomyrmex barbatus* 3190  
*Promachus albifacies* 7183  
*Quercus*, *Phyllonorycter*, parasitoids 4737

## New York

- apples  
   arthropod pests 4553, 6648  
   Cicadellidae 4557  
   orchards, *Neoseiulus fallacis* 649

## USA cont.

## New York cont.

## apples cont.

- Panonychus ulmi* 4561  
*Phyllonorycter blancardella* 3535  
 arthropod pests, *Salix* 5650  
 Asilidae 6199  
*Betula papyrifera*, Tenthredinidae, predators 3954  
 dairy farming, integrated pest management 10479  
*Drosophila*, pathogens 6240  
*Echium vulgare*, *Longitarsus melanurus* 9302  
*Empoasca fabae* 11474  
 forest trees, Scolytidae 3658  
 horticultural crops, integrated pest management 9842  
*Hylastes opacus* 3126  
*Larinoides cornutus* 6058  
*Leptinotarsa decemlineata* 6071  
*Leptothorax longispinosus* 9414  
 lucerne, *Otiorynchus ligustici*, pathogens 9746  
*Lymantria dispar* 2018, 2183  
 maize, *Diabrotica virgifera* 4421  
 peatlands, Carabidae 11349  
*Pinus*, *Ips pini* 4729  
*Plantago lanceolata*  
   *Euphydryas phaeton* 6857  
 Lepidoptera 1090, 11030  
 predatory insects 1090  
*Quercus*, *Lymantria dispar* 4698  
 roses  
   greenhouses, *Phytoseiulus persimilis* 10980, 12024  
   *Tetranychus urticae* 10980, 12024  
*Salix*, *Phyllocolpa*, parasitoids 3646  
*Salix sericea*, insect pests, natural enemies 6761  
 soil, pesticides, degradation 497  
*Solidago*, *Eurosta solidaginis* 3670  
*Solidago odora*, habitats, *Phymata americana* 4779  
*Trachymyrmex septentrionalis* 4082  
 vegetables, pest control, conferences 6908

## North Carolina

- Abies*, forests, *Dasyceus bicolor* 35  
*Abies fraseri*, *Dreyfusia piceae* 8927  
 Carabodes 8067  
 cotton, *Anthonomus grandis* 2631  
 food plants, *Tetranychus urticae* 10717  
 forest trees  
   insect pests 2655  
   *Lymantria dispar* 2653  
 greenhouse crops, pest control 12021-12022  
*Leptinotarsa decemlineata* 10547  
 pesticides, poisoning 9624  
*Pharbitis purpurea*, insects 1740  
*Pinus*, *Dendroctonus frontalis* 7943  
*Pinus strobus*, *Conophthorus coniperda* 9981  
*Rhododendron*, *Stephanitis pyrioides* 4748  
*Solidago altissima*, *Uroleucon* 6067  
*Tetragnatha elongata* 5178  
 Thysanoptera 9279  
 tobacco, *Myzus nicotianae* 4647  
 tomatoes  
   *Frankliniella* 9809  
   *Macrosiphum euphorbiae* 4525  
*Trifolium repens*, *Tetranychus urticae* 5394  
 weeds  
   beneficial insects 2218  
   natural enemies 2756

## North Dakota

- Acrididae 10359  
 parasitoids 9431  
*Charadrius vociferans*, insecticides, effects 9608  
*Pogonomyrmex occidentalis* 7252  
 rape, *Phyllotreta cruciferae* 1591  
 rivers, insecticide residues 8557  
 sunflowers  
   *Cylindrocopturus adspersus* 681, 6707  
   fields, *Nealiolus curculionis* 681



## USA cont.

## North Dakota cont.

## sunflowers cont.

*Smicronyx fulvus* 8804

## Ohio

*Apis mellifera*, ectoparasites 4108

Araneae 5162

*Capsicum annuum*, Lepidoptera 11832

*Danaus plexippus* 4019, 7224  
forest trees, Nitidulidae 7903  
lawns and turf, *Ataenius spretulus* 10009

## maize

*Diabrotica* 2433

*Mythimna unipuncta* 4420

sorghum, *Hypena scabra* 10762

## soyabeans

## fields

Araneae 7733

parasitoids 3493

*Hypena scabra* 3493

water, insecticide residues 11665

## Oklahoma

cereals, *Schizaphis graminum* 8627

cotton, *Anthonomus grandis* 9958

*Helicoverpa zea* 1096

lucerne, *Acyrtosiphon kondoi* 3485

weeds, natural enemies 2756

## wheat

Aphididae 8633

*Schizaphis graminum* 539

## Oregon

apples, orchards, Acari 4554

*Artemisia tridentata*, *Europiella carvalhoi* 11127

*Centaurea solstitialis*, natural enemies 2750

*Dendroctonus ponderosae* 11976

*Dendroctonus pseudotsugae*, predators 9540

food plants, *Fumibotys fumalis* 1183

forests, pesticides, usage 9967-9968

*Formica* 1194

## hops

fields, Phytoseiidae 12049

*Tetranychus urticae* 12049

*Juniperus*, insects 12019

pears, pesticide residues 6651

pesticides, legislation 9551

Pinopsida, *Choristoneura occidentalis* 4720, 11974

*Pseudotsuga menziesii*

*Dendroctonus pseudotsugae* 8925

insect pests 7962

Scolytidae 8994

*Senecio jacobaea*

*Longitarsus jacobaeae* 1756

natural enemies 3691

## strawberries

fields, *Neoseiulus fallacis* 9859

*Tetranychus urticae* 9859

wildlife, pesticide residues 9630

wood, Coleoptera 11041

## Pennsylvania

*Acer saccharum*, *Taeniothrips inconsequens* 2677, 10955

## apples

*Cydia pomonella* 11849

## orchards

parasitoids 11846

pesticide residues 451

*Stethorus punctum* 9838

*Platynota idaeusalis* 6635, 6640, 11846

*Echium vulgare*, *Longitarsus melanurus* 9302

*Eurosta solidaginis*, natural enemies 7257

forest trees, *Lymantria dispar* 9970, 11974

*Leptinotarsa decemlineata* 8495

*Lymantria dispar* 2183

## maize

*Deroceras reticulatum* 6454

*Diabrotica virgifera* 10713

fields, *Trichogramma nubilale* 11731

*Ostrinia nubilalis* 11731

mushrooms, Diptera 813

*Phlox*, Miridae 12054

## USA cont.

## Pennsylvania cont.

potatoes, *Leptinotarsa decemlineata* 6552, 7756

*Quercus*

insecticide residues 10941

*Lymantria dispar* 6755

tomatoes, pest control 8731

Rhode Island, *Iva frutescens*, *Uroleucon ambrosiae*, predators 8972

## South Carolina

cereal grains, Coleoptera 4809

*Cicindela dorsalis* 4040

cotton, Noctuidae 11969

crops, *Nezara viridula* 4107

forest trees, *Lymantria dispar* 2653

groundnuts, Lepidoptera 6715

## kale

fields, beneficial arthropods 4511

*Plutella xylostella* 4511

maize, *Helicoverpa zea* 6458

*Mantispa viridis* 7012, 7161

pecans, orchards, *Harmonia axyridis* 4609

*Pinus taeda*, *Rhyacionia frustrana* 4733

## stored products

habitats, *Bracon hebetor* 9613

*Plodia interpunctella*, parasitoids 9613

sweet potatoes, insect pests 5482

*Tradescantia hirsuticaulis*, *Jalysus spinosus* 4768

weeds, natural enemies 2756

## South Dakota

*Anas platyrhynchos*, insecticides, effects 11612

food plants, *Diabrotica barberi* 1596

grasslands, arthropods 9742

Lepidoptera 7274

lucerne, pest control 5781

## maize

*Diabrotica barberi* 2423, 6456

*Diabrotica virgifera* 4419, 9701

wheat, Aphididae 8633

## Tennessee

*Abies*, forests, *Dasyceirus bicolor* 35

apples, arthropod pests 8751

forest trees, *Lymantria dispar* 2653

peaches, *Mesolecanium nigrofasciatum* 8751

rape, *Ceutorhynchus assimilis* 4617

water, insecticide residues 2356

## Texas

*Agrotis ipsilon* 5070

*Anastrepha ludens*, predators 8385

*Anticarsia gemmatilis* 6260

*Apis mellifera* 9514

aquatic environment, pollutants 2353

birds, insecticide residues 2327

cabbages, pest control 11812

*Capsicum annuum*, *Anthonomus eugenii* 4533

cereals, *Schizaphis graminum* 8627

*Chaetochytrid* 3004

Citrus, *Aleurocanthus woglumi* 4550

## cotton

*Anthonomus grandis* 5617, 8844, 9958

parasitoids 6740

*Aphis gossypii* 9959

## fields

Araneae 4669

predatory insects 4670

*Helicoverpa zea* 4665, 4670

*Heliothis virescens* 716, 11966

*Diatraea grandiosella* 11275

*Eustilicus* 4820

Formicidae 4699

*Helicoverpa zea* 1096

*Heliothis virescens* 9584

insects 1097

## maize

*Diabrotica virgifera* 6467, 8648

*Helicoverpa zea* 8650, 9702

Noctuidae 2436

man, insecticide residues 8538

Mordellidae 11371

nontarget organisms, insecticide residues 11614

pecans, *Acrobasis nuxvorella* 11916

## USA cont.

## Texas cont.

*Pinus*, *Ips* 1694

*Pinus taeda*, *Dendroctonus frontalis* 9985

*Sigmodon hispidus*, insecticide residues 8540

*Solenopsis invicta* 1990, 2072, 6153

*Solenopsis invicta* × *S. richteri* 5141

## sorghum

*Contarinia sorghicola* 560, 4433

insect pests 4431

## sugarcane

*Eoreuma lofini* 6719-6720, 9926

plantations, arthropods 693

*Tapinoma melanocephalum* 6102

water, insecticide residues 6385

weeds, natural enemies 2756

## wheat

Aphididae 8633

*Schizaphis graminum* 539, 1427

## Utah

Acari, predators 650

*Artemisia tridentata*, habitats, Araneae 4780

*Cirsium arvense*, *Rhinocyllus conicus* 4786

*Drosophila pseudoobscura* 11141

forest trees, *Lymantria dispar* 9970

grasslands, habitats, Araneae 5048

lucerne, Acrididae 8681

Pinopsida, *Orgyia pseudotsugata* 8930

*Populus*, insect pests 10945

*Populus fremontii*, *Pemphigus obesinymphae* 5649

*Salix exigua*, *Rabdophaga* 7922

*Yucca kanabensis*, pollinators 1741, 8000

## Vermont

*Acer*, insect pests 5658

*Acer saccharum*, *Taeniothrips inconsequens* 2674

apples, mites 11848

*Hepialus gracilis* 3927

*Hylastes opacus* 3126

*Leptothorax longispinosus* 9414

## Virginia

*Abies fraseri*, *Dreyfusia piceae* 8927

## apples

*Panonychus ulmi* 6633

Tortricidae 10849

*Bolitotherus cornutus* 2014

*Brassica*, *Pieris rapae* 9797

broadleaves, *Lymantria dispar* 1656

*Cirsium arvense*, natural enemies 6845, 7360

*Echium vulgare*, *Longitarsus melanurus* 9302

*Euonymus japonicus*, *Unaspis euonymi* 10001

*Festuca arundinacea*, *Dolerus nitens* 8175

forest trees, *Lymantria dispar* 9970

forests, Lepidoptera 11986

*Leptinotarsa decemlineata* 10547

*Lymantria dispar* 2183, 4224-4225

## maize

fields, predatory arthropods 3437

*Mythimna unipuncta* 3437

*Phlox*, Miridae 12054

Poaceae, *Graminella nigrifrons* 10721

potatoes, *Leptinotarsa decemlineata* 9782

*Quercus*

*Anisota senatoria* 7916

*Lymantria dispar* 4697-4698

*Phyllonorycter hamadryadella*, parasitoids 11353

*Silene pratensis*, pollinators 6848

*Solanum carolinense*, natural enemies 3059

trees, insect pests, damage 12025

weeds, natural enemies 2756

## Washington

## apples

arthropod pests 8757

*Cydia pomonella* 11858

Tortricidae 1538

## barley

*Diuraphis noxia* 5412



## USA cont.

- Washington cont.  
barley cont.  
fields, *Scymnus fenderi* 5412  
birds, insecticides, residues 2291  
*Camponotus* 1988  
*Cirsium vulgare*, *Platyptilia*  
*carduidactyla* 5725  
*Crataegus*, *Rhagoletis pomonella*,  
parasitoids 2746  
crops, *Phorodon humuli* 11007  
*Dolichovespula norvegicoides* 3939  
food plants  
*Enarmonia formosana* 1547  
*Fumibotys fumalis* 1183  
*Papilio zelicaon* 11316  
grapes, pest control 3545  
grasses, *Tipula paludosa* 5450  
hops, *Phorodon humuli*, predators  
6834  
insects 8368  
Isoptera 5184  
Neuroptera 2013  
ornamental plants, pest control 3663  
pears  
arthropod pests 6652  
*Cacopsylla pyricola* 4563, 8766  
*Populus trichocarpa*, insect pests  
7919  
raspberries  
insect pests 3542  
pest control 4570  
small fruits, pest control 1550, 3541  
soil, insecticide residues 9645  
surface water, pesticide residues 499  
wood, Coleoptera 11041
- West Virginia  
apples  
arthropods 651  
*Eriosoma lanigerum* 4555, 9835  
broadleaves  
forests, Vespidae 7911  
*Lymantria dispar* 1656  
food plants, *Formica exsectoides* 580  
forest trees, *Lymantria dispar* 5642,  
9970  
forests, arthropods 7594  
*Hylastes opacus* 3126  
lucerne  
fields, beneficial insects 8682  
*Hypera postica* 8682  
*Peromyscus leucopus*, insecticides,  
effects 9605  
*Phlox*, Miridae 12054
- Western States of USA, rangelands,  
Acrididae 11753
- Wisconsin  
apples, orchards, *Drosophila* 9833  
*Diabrotica*, pest control 2316  
fishes, insecticide residues 7616,  
11637  
*Ips pini* 11976  
*Larix argentatus*, insecticide residues  
4306  
*Lasius neoniger* 10363  
maize, commodities, habitats,  
*Lyctocoris campestris* 9011  
*Nycticorax nycticorax*, insecticide res-  
idues 10626  
Nymphalidae 7187  
*Pinus*  
*Hylobius* 8912  
*Ips pini* 10966  
*Neodiprion* 12010  
*Pinus banksiana*, *Choristoneura pinus*  
1688  
*Pinus resinosa*, *Ips pini*, natural ene-  
mies 7953  
*Pinus strobus*, *Pissodes strobi* 2692  
potatoes, integrated pest management  
7762  
*Vaccinium*, *Chrysoteuchia topiaria*  
3544
- Wyoming  
*Artemisia tridentata*, *Europiella*  
*carvalhoi* 11127  
Coleoptera 4038  
*Hypodryas gillettii* 11289  
meadows, *Hypodryas gillettii* 173  
*Pogonomyrmex occidentalis* 8395

## USA cont.

- Wyoming cont.  
rangelands  
arthropods 5446  
insect pests 5448  
*Reticulitermes tibialis* 8395
- Uscana lariophaga**  
biology  
behaviour 10045  
environmental factors 10277  
hosts  
Bruchidae 10045  
*Callosobruchus maculatus* 10277  
Niger 10045
- Uscanoidea iperterebrata**  
Brazil 4838  
taxonomy, new species 4838
- Uscanoidea nigriiventris**, morphology 4838
- Uscanoidea silvestrii**  
hosts, Membracidae 4838  
South America 4838  
taxonomy, new species 4838
- Usnea filipendula**, extracts, antifeedants,  
*Spodoptera littoralis* 8610
- Usnea lapponica**, extracts, antifeedants,  
*Spodoptera littoralis* 8610
- USSR** (see also individual republics of the  
former USSR)  
*Alnus incana*, *Oncopsis tsejensis* 1840  
cotton, integrated pest management,  
reviews 5603, 5607  
deserts, arthropods 2012  
*Oncopsis* 1840
- Ustilago violacea**, vectors, insects 6848
- Uta standburiana**, insecticides, residues  
11614
- Utetheisa ornatrix**  
biochemistry, pheromones 1889  
biology, reproduction 69  
physiology, reproduction 9201  
predators 2000
- Uzbekistan**  
*Chorthippus* 5123  
fruit vegetables, *Trialeurodes vaporari-*  
*orum* 11823  
*Helicoverpa armigera* 9257  
*Ulmus minor*, Coleoptera 746
- Vaccinium**  
*Acrobasis vaccinii*, USA 7061  
*Chrysoteuchia topiaria*, Wisconsin 3544  
*Colias* 3030  
*Croesia curvalana*, Nova Scotia 2566  
fields, parasitoids, British Columbia 9855  
insecticides, residues 3543, 11675  
pest control  
Canada 8769  
USA 8769  
Washington 1550  
*Rhagoletis mendax* 9857  
*Rhopobota naevana*, British Columbia  
9855
- Vaccinium angustifolium**  
*Hemadas nubilipennis*, galls 4572  
*Rhagoletis mendax*, Canada 9856
- Vaccinium arboreum**, *Rhagoletis* 9857
- Vaccinium corymbosum**  
*Choristoneura rosaceana* 6008  
pesticides, residues 5756
- Vaccinium macrocarpon**, pest control, North  
America 8770
- Vaccinium myrtilloides**, *Colias* 3030
- Vaccinium myrtilus**, *Hypera crassalis* 2859
- Vaccinium vacillans**, Lepidoptera, Virginia  
11986
- Vairimorpha**, hosts, *Plutella xylostella* 996
- Vairimorpha necatrix**, hosts, *Helicoverpa*  
*zea* 5209
- Valeric acid**, attractants, *Macroductylus*  
11730
- Validoxylamine**, effects, *Mamestra brassi-*  
*cae* 9575
- Valine**, effects, *Bactrocera cucurbitae* 7029
- Vamidothion**  
effects, fishes 1352  
residues, horticultural crops, commodities  
5740  
resistance, *Eriosoma lanigerum* 8764
- Vanellus indicus**, insecticides, residues 5323
- Vanessa atalanta**  
biology, behaviour 7195  
Iowa 7195

## Vanessa indica

- distribution, Europe 3114  
*Urtica morifolia*, Europe 3114
- Vanessa itea** (see *Bassaritis itea*)
- Vanonus balteatus**  
biology 6032  
Mexico 6032
- Varroa jacobsoni**  
acaricides, resistance 2108, 8509  
*Apis mellifera*, resistance 4096  
Asia 8360, 11430  
Austria 1221  
biology  
behaviour 304, 3947, 4089, 5379,  
7352  
development 11426  
life history 11443  
reproduction 3225, 3798, 8388  
California 7353, 9449  
control 2117, 3234, 9449, 11430  
chemical control 4123, 7353, 7367,  
8509, 10381, 11448  
integrated control 1287  
trapping 7352  
damage, assessment 11437  
ecology, population dynamics 7353,  
10376  
essential oils, toxicity 8571  
*Galleria mellonella*, interactions 11437  
hosts  
*Apis* 3234, 8359, 11430, 11443  
*Apis mellifera* 296, 304, 1221, 1287,  
2108, 2117, 3225, 3798, 3947,  
4089, 4096, 4123, 7353, 8360,  
8388, 8399, 8509, 8571, 9430,  
9448-9449, 10376, 10381,  
10605, 11426, 11448  
hydrocarbons, attractants 5379  
Italy 2108, 2117, 8509  
Michigan 11448  
Netherlands 7352, 8388  
physiology, embryonic development 5846  
Poland 10381  
Switzerland 1287  
UK 11426  
USA 8399
- Varroa sinhai**  
Asia 3790  
hosts, *Apis florea* 3790  
morphology 3790
- Varroidae**, biology, embryonic development  
1866
- Vasates oldfieldi**, taxonomy, synonyms, *Eri-*  
*ophyes lionotus* 3727
- Vegetable marrows** (see Marrows)
- Vegetable oils**  
control, *Acarapis woodi*, *Apis mellifera*  
4108  
effects, nuclear polyhedrosis viruses 7433
- Vegetables**  
Aphididae, Shanghai 8498  
arthropod pests  
economic thresholds 1298  
Poland 1514  
arthropods, Sichuan 9349  
*Bactrocera dorsalis* 9350  
*Bactrocera cardiensis*, Sri Lanka 9894  
*Bactrocera occipitalis*, South East Asia  
9893  
*Bactrocera papayae* 9351  
*Bactrocera philippinensis*, Philippines  
9892  
*Bactrocera pyrifoliae*, Thailand 9898  
commodities  
insect pests, control 4799  
insecticides, residues 2322, 3709,  
4805-4806, 11396  
pest control 2778  
Drosophilidae, Honshu 6038  
*Frankliniella occidentalis*, Europe 7167  
fumigants, residues, determination 9398  
insect pests  
California 4664  
control  
cultural control 615  
reviews 9532  
France 1274  
insecticides, residues, analysis 10331  
integrated pest management 6915  
Indonesia 5265  
pest control 6137, 12087



**Vegetables** *cont.*pest control *cont.*

- conferences 6908
- Germany 3317
- Indonesia 5290
- New York 6908
- Poland 1298
- West Africa 9032

## pest resistance 1412

pesticides, residues 468, 2325, 9394

## pests 11063

- Canada, books 6925
- Plutella xylostella*, Guangdong 10548
- Tetranychus urticae* damage 1515
- Poland 1515

**Vegetation**, pesticides, residues 5332**Velarifictorus aspersus**

- biology, environmental factors 10274
- Shandong 10274

**Velarifictorus micada**

- biology, environmental factors 10274
- Shandong 10274

**Velocitermes**

- biology, development 1977
- physiology, glands 1910

**Venezuela**

Acromyrmex 2882

## Arecaceae

- Brassolis sophorae* 5683
- Rhynchophorus palmarum* 7862

## bananas

- Cosmopolites sordidus* 1564
- plantations, *Hololepta quadridentata* 1564

cabbages, *Plutella xylostella* 619

Cicindelidae 7271

cocoa, insects 5597

Curculionidae 5839

economic thresholds 7497

field crops, *Thrips palmi* 624

fishes, insecticide residues 7579, 11668

## food plants

*Myzus persicae* 4383*Thrips palmi* 5462

forest trees, insect pests 8862

Ichneumonidae 250

insect pests 11461

maize, arthropod pests 7675

melons, *Anastrepha grandis* 8796oil palms, *Rhynchophorus palmarum* 5574*Passiflora*, Notodontidae 4896*Phaseolus vulgaris*

Aphididae 5463

*Ledesmodina auricollis* 7737*Pinus caribaea**Atta laevigata* 6786forests, *Atta laevigata* 8914

## potatoes

insect pests 7752

*Myzus persicae* 7751sapidillas, *Augocoris gomesii* 7855savanna woodlands, *Atta laevigata* 9308*Sinoxylon anale* 7270sorghum, *Contarinia sorghicola* 1448*Sorghum halepense*, *Contarinia**sorghicola*, parasitoids 1466sugarcane, *Myelobia atroparsellus* 7876sweet potatoes, *Cylas formicarius elegantulus* 8716

## tomatoes

*Bemisia tabaci* 2534, 4521

insect pests 7784

*Liriomyza sativae* 4520*Neoleucinodes elegantalis* 1517

pest control 7786

*Sitotroga cerealella* 4522

Veronellidae 1241

**Venoms***Chelonus*, biochemistry, enzymes 10165effects, *Acyrtosiphon pisum* 11566*Nephila* 4094**Venturia canescens**

## biology

behaviour 3964, 3966

development 3224, 9143, 9145

ecology, host-seeking behaviour 7345

## hosts

*Ephestia kuehniella* 10367

Lepidoptera 3964, 3966

**Venturia canescens** *cont.*hosts *cont.**Plodia interpunctella* 3224, 8387, 9143

Pyralidae 7345, 9145

**Venturia jordanae**hosts, *Maliarpha separatella* 1212

rice, habitats, Africa 1212

taxonomy, new species 1212

**Veratridine**, analogues, effects, insects

10345

**Veratrole**, mixtures, effects, *Schistocerca**gregaria* 9179**Verbascum densiflorum**, Araneae, Switzer-

land 2759

**Verbena officinalis**, insecticides, residues

7983

**Cis-verbenol**, pheromones, *Ips typographus*

8924

**Verbenone**, mixtures, attractants, *Den-**droctonus brevicomis* 7936**Verbesina enceloides**, *Frankliniella**occidentalis* 6263**Vernonia cinerera**, *Spilostethus hospes*,

India 8622

**Veronica**, *Myzus cerasi* 5108**Veronica hederifolia**, insects, pollination

5726

**Veronica persica**, insects, pollination 5726**Veronellidae**, distribution, Venezuela 1241**Vertebrates**, control, Acrididae, evaluation

6144

**Verticillium bulbillosum**, *Onychiurus**armatus*, interactions 1072**Verticillium lecanii**

biochemistry, enzymes 2169, 4179

## control

arthropod pests 11900

*Bemisia tabaci*, greenhouse crops

4759

*Frankliniella occidentalis* 7486

Hemiptera, cucumbers 1525

*Trialeurodes vaporariorum*, tomatoes

6607

culture techniques 372, 4189

effects, rodents 8433

germination 1249

## hosts

Aleyrodidae 6246

*Bemisia argentifolii* 8443*Diuraphis noxia* 5218*Frankliniella occidentalis* 4184,

10445

Hemiptera 7429

*Lyttia nuttalli* 5218*Melanoplus sanguinipes* 4179*Myzus persicae* 4175*Odontotermes obesus* 6243*Taeniothrips inconsequens* 5658*Zyginidia pullula* 2169

pesticides, toxicity 7429

toxins, effects, insect pests 1260

viability 7428

**Vespa**, biology, behaviour, models 3048**Vespa affinis**, physiology 6159**Vespa auraria**

biology 2838

taxonomy 2838

**Vespa bicolor**

biology 2838

taxonomy 2838

**Vespa crabro**

biochemistry, chemical composition 6198

biology, behaviour 3039

Georgia 6198

UK 3039

**Vespa orientalis**

Israel 8383

parasitoids 8383

**Vespa simillima**

biology 2838

taxonomy 2838

**Vespa velutina**

biology 2838

taxonomy 2838

**Vespa vivax**

biology 2838

taxonomy 2838

**Vespamina***Pinus*

Arizona 10963

**Vespamina** *cont.**Pinus* *cont.*

varietal reactions 10963

**Vespidae**

biochemistry, venoms 9175

biology, sexual dimorphism 3026

broadleaves, forests, West Virginia 7911

Colombia 3197

ecology, habitats 11346

insecticides, effects 7911

Mato Grosso 11346

monitoring, traps 7911

morphology 3197

venom glands 3783

*Polygonum thunbergii*

Honshu 5727

pollination 5727

prey, insect pests 6191

Sao Paulo 3783

**Vespoidea**, evolution 2867, 9107**Vespa**, biology, behaviour, models 3048**Vespa germanica**

Australia 1203

## biology

behaviour 3937, 4386, 7849

development 1203

Chile 3937

*Citrus*, habitats, Greece 7849

distribution, New Zealand 3119

*Nothofagus*, habitats, New Zealand 4713

orchards, habitats, Greece 4386

prey, *Ceratitidis capitata* 4386, 7849venoms, toxicity, *Helicoverpa zea* 11233*Vespa vulgaris*, interactions 4713**Vespa maculifrons**, pheromones 10172**Vespa squamosa**, pheromones 10172**Vespa vidua**

biology, behaviour 6171

prey, *Manduca sexta* 6171**Vespa vulgaris**

Austria 966

distribution, New Zealand 3119

*Nothofagus*, habitats, New Zealand 4713

physiology, metabolism 966

*Vespa germanica*, interactions 4713**Vetch** (see *Vicia*)**Viburnum dilatatum**, *Pidonia tsuyukii*, Hon-

shu 5707

**Viburnum tinus**

Acari, Victoria 1639

habitats, Bdellidae, Italy 12027

insect pests, Italy 12027

*Pyrrhalta viburni*, Italy 12027**Vicia**

## Acari

damage 11704

varietal reactions 11704

*Eutrichapion mystriphorum*, Europe 6971**Vicia benghalensis**, extracts, effects,*Bruchus pisorum* 4466**Vicia faba** (see *Faba* beans)**Vicia sativa**, *Halotydeus destructor* 3487**Vicia villosa**, *Bradysia*, damage 8670**Vicia villosa** subsp. *varia*, *Bradysia*, damage

8670

**Vietnam**

Coleoptera 6942

Formicidae 5099

insecticides, usage 7702

## rice

Delphacidae 7697

insect pests 7702

*Nilaparvata lugens* 7705

soil, insecticide residues 2386

soybeans, Noctuidae 9752

**Vigna angularis**

books 3726

commodities

*Callosobruchus chinensis* 4811, 6887*Callosobruchus maculatus* 3969,

11047

extracts, effects, *Callosobruchus chinensis* 4811**Vigna angularis** var. *dainagon*, *Cal-**losobruchus chinensis* 2009-2010**Vigna mungo**

books 2824

commodities

*Callosobruchus maculatus* 3711,

10038, 11047



- Vigna mungo** *cont.*  
commodities *cont.*  
*Callosobruchus maculatus* *cont.*  
resistance 3711  
intercropping, pigeon peas, effects, insect pests 11781  
*Madurasia obscura*, Tamil Nadu 6890  
mites 2824  
*Riptortus pedestris*, Uttar Pradesh 10778  
*Spodoptera litura*, Uttar Pradesh 6406
- Vigna radiata**  
Acrididae, Tamil Nadu 6143  
*Bemisia tabaci* 5468  
Assam 9766, 11789  
India 5470  
Indonesia 6529  
books 2824  
*Callosobruchus chinensis*, damage 2774  
commodities  
*Callosobruchus* 11044  
*Callosobruchus chinensis* 4794  
*Callosobruchus maculatus* 834, 1766, 3969, 11047  
Coleoptera 4795  
insect pests  
control, chemical control 11786  
Delhi 11786  
Uttar Pradesh 10780  
insecticides, residues 9768, 10779  
intercropping, pigeon peas, effects, insect pests 11781  
mites 2824  
odours, effects, *Eupelmus vuillei* 4482  
*Spilarcia obliqua* 2893  
*Spodoptera litura* 9908  
Tenebrionidae, Queensland 5396  
Thysanoptera, Indian Punjab 8700
- Vigna subterranea**  
commodities  
*Callosobruchus subinnotatus* 4803, 9019  
resistance 9004  
varietal susceptibility 12072
- Vigna unguiculata** (see Cowpeas)
- Vigna vexillata**, commodities, *Callosobruchus maculatus*, resistance 2776
- Villa manillae**  
Chile 9086  
hosts, *Leptotes trigemmatum* 9086  
taxonomy, new species 9086
- Vineyards**  
Acari, Hungary 7837  
*Anagrus atomus*, Italy 6666  
habitats  
Acari, Yugoslavia 1531  
*Kampimodromus aberrans*, Italy 1560  
predatory arthropods, Germany 5540  
*Typhlodromus pyri* 4124  
*Kampimodromus aberrans*, Italy 8775  
*Lobesia botrana*, Italy 9874  
predatory insects, Germany 4577  
predatory mites, Germany 8774  
*Trichogramma evanescens*, Egypt 11876  
*Troxylon impressum*, Switzerland 12071  
*Typhlodromus*, Hungary 1559  
*Typhlodromus pyri*, France 1558
- Vinsonia stellifera**  
distribution, Australia 5800  
taxonomy 5800
- Vinyl chlorides**, antifeedants, *Spodoptera litoralis* 2735
- 4-Vinylveratrole**, mixtures, effects, *Schistocerca gregaria* 9179
- Viola arvensis**, Syrphidae, Switzerland 2759
- Viola verecunda**, Formicidae, interactions 6155
- Viola wittrockiana**, *Taeniopoda eques*, Arizona 8259
- Virachola isocrates** (see *Deudorix isocrates*)
- Viral insecticides** (see also Microbial pesticides)  
control, stored products pests 8016  
resistance, *Anticarsia gemmatilis* 5245  
reviews 11545
- Viruses** (see also Insect viruses)  
vectors, insects 10458
- Vitacea polistiformis**  
control 5542  
physical control 9866
- Vitacea polistiformis** *cont.*  
grapes  
damage 4578  
Georgia 9866  
Mississippi 4578  
USA 5542  
monitoring, traps 4578
- Viteus vitifoliae**  
biotypes 11881  
control 4576  
genetics 9877  
grapes  
California 9878, 11881  
Germany 9864  
resistance 2572, 9865, 9877-9878  
Switzerland 4576  
varietal susceptibility 9864  
*Vitis vinifera* × *V. labrusca*, damage 11886
- Vitex, Aleuroclava**, Tamil Nadu 21
- Vitex negundo**  
extracts  
control, *Leptocoris acuta*, rice 3455  
toxicity  
*Callosobruchus chinensis* 3707  
*Plutella xylostella* 11593  
insects  
Andhra Pradesh 5684  
pollination 5684
- Vitis**  
*Aleurocanthus woglumi* 10046  
*Thrips konoi* 919  
*Vitis labrusca* (see Grapes)  
*Vitis rotundifolia* (see Grapes)  
*Vitis vinifera* (see Grapes)  
*Vitis vinifera* (dried fruit) (see Raisins)  
*Vitis vinifera* × *V. labrusca*, *Viteus vitifoliae*, damage 11886
- Vitula edmandsae serratilineola**, Washington 3939
- Volatile compounds**, attractants, *Diabrotica barberi* 6456
- Vydate** (see Oxamyl)
- Wachekitylenchus bembidi**, morphology, integument 10452
- Wachekitylenchus bovienii**, morphology, integument 10452
- Wahlgreniella nervata**  
biology 7971  
morphology 7971  
*Rosa*, Argentina 7971
- Walnuts** (*Juglans regia*)  
Acari  
galls 10950  
Uttar Pradesh 10950  
*Amyelois transiella*  
California 4608  
damage 4608  
*Fleutiauxia armata*, China 6949  
habitats, *Allothrombium pulvinum*, Iran 9352  
*Locastra muscosalis*, Korea Republic 6701  
*Paraseiulella profitai*, California 3762  
*Plodia interpunctella* 10059  
*Rhagoletis completa*, California 4607  
*Tribolium castaneum* 8890
- Walshomyia**  
*Juniperus*  
galls 12019  
USA 12019
- Washing**, control, insect pests, horticultural crops, commodities 4799
- Washingtonia robusta**, *Metamasius hemipterus sericeus*, Florida 2239
- Wasmannia**, pastures, Colombia 5457
- Wasmannia auropunctata** (see *Ocheto-myrmex auropunctatus*)
- Wasps** (see Vespoidea)
- Waste land**, Cryptostigmata, Poland 9340
- Waste water**  
effects, *Hypera postica* 9747  
pesticides, residues 7612
- Water**  
acaricides, residues 10639  
growth regulators  
degradation 5278, 5310  
residues 4331  
insecticides  
degradation 501, 1377, 2377, 3392, 4231, 9602
- Water** *cont.*  
insecticides *cont.*  
determination 4069  
removal 3150  
reports 2805  
residues 494, 507, 509, 2047, 2066, 2349, 2359, 2369, 2373-2375, 2379-2380, 3517, 4328, 5361, 5685, 6385, 6387, 6389, 6392, 8551, 10633, 10648, 10654, 10815, 11657, 11661, 11665, 11672, 11674, 11738, 12096-12097  
analysis 3396, 10332  
decontamination 488  
detection 2061, 11678  
extraction 10649, 11395  
runoff 9634  
organochlorine compounds, residues 1383, 3390  
organophosphorus compounds, degradation 4240  
pesticides  
degradation 9642, 10574, 10638  
determination 4067, 7599  
movement, models 4063  
removal 6134  
residues 486, 492, 505, 508, 510, 783, 4335, 5107, 5292, 6379, 6386, 7620, 9638, 9647, 11664  
analysis 3154, 4234  
detection 10663  
legislation 11660
- Watercress** (*Nasturtium officinale*)  
arthropod pests, control, chemical control 11819
- Neolema ovalis* 917
- Plutella xylostella*, China 3420
- Watermelon mosaic 2 potyvirus**  
vectors  
Aphididae 4537  
Aphidoidea 10891
- Watermelon mosaic potyvirus**, vectors, Aphidoidea 11910
- Watermelon mosaic 2 potyvirus**, vectors, *Aphis illinoisensis* 6668
- Watermelons** (*Citrullus lanatus*)  
Aphididae, Florida 4537  
*Aphis gossypii* 2401  
Italy 11833  
arthropod pests, Honshu 2576  
*Bactrocera depressa*  
damage 6599  
Korea Republic 6599  
*Bactrocera tau* 2540  
*Bemisia tabaci*, Costa Rica 629  
extracts, attractants, *Aulacophora foveicollis* 638  
fields, predatory arthropods, Honshu 2576  
*Frankliniella fusca*  
damage 10834  
Florida 10834  
habitats, predators, Italy 5174  
insect pests 7781  
*Tetranychus cinnabarinus*, varietal susceptibility 1526
- Waterstoniella keralensis**  
*Ficus talboti*  
Kerala 9097  
pollination 9097  
taxonomy, new species 9097
- Waxes**, effects, *Atta sexdens* 7999
- Waxiella**  
cocoa, Ghana 4645  
Formicidae 4645
- Weed control**  
effects  
Carabidae 10385  
insects 11017  
nontarget effects, *Melanagromyza sojae* 10755
- Weeds**  
*Bemisia tabaci*, Mexico 8779  
*Caliothrips indicus*, interactions 7873  
Chrysopidae, Switzerland 2759  
*Cicadulina chinai*, Egypt 10720  
control  
biological control 531, 5719, 6273, 11026, 11033-11036  
books 2215



- Weeds cont.**  
 effects, *Diabrotica* 2433  
 habitats  
   Coccinellidae, Yugoslavia 6166  
   predatory mites, Utah 650  
   Syrphidae, UK 832  
 Hemiptera, Pakistan 631  
 Heteroptera, Yugoslavia 11842  
 insects  
   Andaman and Nicobar Islands 1747  
   pollination 2761  
*Myzus persicae*, Idaho 4175  
 natural enemies  
   Idaho 11026  
   New Zealand 9445  
*Thrips pseudoalfavus* 919  
 Thysanoptera, North Carolina 9279  
*Zygogramma bicolorata*, India 1749
- Weevils** (see Apionidae; Curculionidae)
- Weigela floribunda**, *Pidonia tsuyukii*, Hon-shu 5707
- Weinmannia racemosa**, *Neeriochiton clareae*, New Zealand 4870
- Welsh onions**  
 arthropod pests 883  
 books 883  
*Spodoptera exigua* 7636
- Wesmaelius subnebulosus**, Slovakia 11363
- West Africa**  
 crops, pest control 9032  
 Rhyparochrominae 11128
- Western hemlock** (see *Tsuga heterophylla*)
- Western larch** (see *Larix occidentalis*)
- Wet storage**, control, Coleoptera, *Pinus taeda*, wood 8014
- Wetlands**, pesticides, pollutants, reviews 2357
- Whales**  
 organochlorine compounds, effects 3381  
 pesticides, residues 472
- Wheat** (*Triticum aestivum* and *T. durum*)  
 Acari  
   damage 11704  
   varietal reactions 11704  
*Aceria tulipae*, resistance 1421  
 Acrididae 3422  
*Acronicta rumicis*, Jiangsu 7635  
*Aiolopus thalassinus tamulus*, Gujarat 5409  
 Aphididae 5404, 7670  
   economic thresholds 2412, 3430, 10690  
   Europe 2405  
   Germany 1420, 1423, 1428, 3423, 7657, 8631-8632, 11722  
   Henan 10690  
   Irish Republic 11718  
   Poland 3429  
   resistance 3423, 6436, 9684  
   Shandong 3433  
   South Africa 542  
   Syria 6437  
   UK 543, 7656, 10691  
   USA 8633  
   yield losses 545, 10690  
 Aphidoidea 10700  
   resistance 5405  
   UK 5410  
 arthropod pests, North America 6439  
*Bryobia praetiosa*  
   Argentina 1424  
   damage 1424  
*Cathartus quadricollis* 836  
 Cecidomyiidae  
   Czech Republic 6440, 6444  
   Poland 3428  
   resistance 3428, 6440  
   Shaanxi 7671  
*Cephus cinctus*, resistance 6432  
*Chinomis haywardi* 3425  
*Collaria oleosa*, Federal District 9672  
 commodities  
   Acari, Italy 6879  
   arthropod pests 850  
   UK 4802  
*Cheletomimus cambio*, Pakistan 8059  
 Coleoptera 2785, 4801, 6864, 6892, 11043  
   damage 10032, 10056  
   Georgia 9008  
   Indian Punjab 6868
- Wheat cont.**  
 commodities cont.  
   fumigants, residues 6881, 12070  
   habitats, *Cheyletus eruditus*, UK 4802  
   insect pests 840  
     Costa Rica 3704  
     Kansas 4808, 6871  
   insecticides, residues 4797, 5747-5748, 5750  
*Mayetiola destructor* 6873  
   pesticides, residues 7572, 12085  
*Rhyzopertha dominica* 1769, 3799, 9002, 10037-10038  
*Sitophilus granarius* 6896, 10058  
   varietal reactions 12083  
*Sitophilus oryzae* 10053  
   Bangladesh 3705  
*Sitophilus zeamais* 6901  
 stored products pests 6880  
   Manitoba 9013  
   Pakistan 9007, 11049  
*Tribolium castaneum* 9018  
*Tyrophagus putrescentiae* 852  
*Delia coarctata*  
   Germany 1430, 6438  
   UK 534  
*Deroceras reticulatum*, UK 10807  
 Diptera, Germany 541  
*Diuraphis noxia* 6176, 6421, 6441, 9674, 9680, 11716  
   Alberta 6434  
   Australia 8637  
   Colorado 11725  
   France 9676, 11717  
   Kansas 9685  
   resistance 2415, 3431, 4395, 6449, 7651, 8635, 9685  
   USA 6433  
   varietal reactions 9676  
*Elasmolomus sordidus* 8615  
*Eurygaster austriaca*  
   resistance 1426  
   Yugoslavia 1426  
*Eurygaster integriceps*  
   damage 537  
   Ukraine 537  
 extracts  
   antifeedants  
     Aphididae 6436  
     *Nilaparvata lugens* 8614  
   attractants, *Sitophilus zeamais* 10054  
   effects  
     *Brevicoryne brassicae* 816  
     Coleoptera 9163  
 fields  
   Aphidius *colemanni*, Colorado 4401  
   Aphidius *picipes*, Shandong 9677  
 arthropods  
   Germany 5401  
   UK 5410, 10691  
 beneficial arthropods, UK 4409  
 beneficial insects  
   France 11717  
   Germany 2130, 9675  
   Nei Menggu 3095  
   South Africa 542  
   Syria 6437  
   UK 7496  
 Braconidae, Irish Republic 11718  
 Carabidae  
   Finland 7644  
   Germany 7658  
*Centromerus minutissimus*, UK 5  
*Coccinella septempunctata*  
   Henan 10690  
   Shandong 7667  
   UK 543, 10697  
*Gastrophysa polygoni*, UK 10696  
 Hymenoptera, Colorado 11725  
 insects  
   Germany 1428  
   Syria 3426  
 Linyphiidae  
   Netherlands 5407  
   UK 7336  
 predatory arthropods  
   China 256  
   Finland 10693  
   Germany 1224  
   Switzerland 9678  
   UK 4408
- Wheat cont.**  
 fields cont.  
   predatory insects, Germany 7657, 7663, 8631  
   Syrphidae, Germany 8632  
 flours, *Tribolium castaneum* 8022  
 glucosides, Aphididae, effects 5406  
 habitats, *Coccinella septempunctata*, Michigan 5392  
*Helicoverpa armigera*  
   China 8630  
   damage 2414, 8630  
   Hebei 412, 10694  
   Zhejiang 10688  
 insect pests  
   Argentina 7648  
   damage 4398  
   Estonia 10695  
   fertilizers, effects 1425  
   Georgia 4398, 9670  
   Germany 2130, 2324, 3424, 8638  
   Italy 2412  
   Nei Menggu 3095  
   New Zealand 1787  
   resistance 2407, 3813, 6445, 6450  
   Saudi Arabia 5259  
   Sweden 1300  
   Syria 11714  
   UK 4409  
   Ukraine 11724  
   Yugoslavia 1425  
 insecticides  
   effects 3434, 7666, 8629  
   residues 468  
   usage 8628  
 integrated pest management, North America 6439  
 Isoptera  
   Haryana 7666  
   Uttar Pradesh 8813  
*Maladera*, Indian Punjab 9673  
*Mayetiola destructor*  
   damage 6446, 9667  
   Morocco 5403  
   resistance 2416, 4402, 6435, 7664, 8634, 9683, 9687  
   Spain 6429, 6446-6448  
   Tunisia 9667  
   USA 4402, 6435, 9687  
*Melanoplus sanguinipes* 8177  
*Metopolophium dirhodum* 540, 7662  
   Beijing 10689  
   resistance 4404  
*Mythimna separata*  
   China 256  
   Gujarat 5408  
   Madhya Pradesh 538  
   Shanghai 6442  
   yield losses 6442  
 Noctuidae  
   economic thresholds 10917  
   Shandong 10917  
   yield losses 10917  
*Nysius huttoni*  
   damage 3432  
   New Zealand 3432  
*Opomyza florum*, UK 7652  
*Oscinella*, resistance 2413  
*Oulema*  
   Czech Republic 10698  
   damage 10698, 11721  
   economic thresholds 11721  
   Poland 11721  
*Penthaeus major*, Henan 9681  
 pest control 12098  
   reports 860  
   Sweden 2410  
 pest resistance 6283  
 pesticides, residues 1388  
*Pleonomus canaliculatus*, yield losses 7669  
*Psammotettix striatus*, France 10699  
*Rhipidothrips flavus*, Turkey 1147  
*Rhopalosiphum padi* 544, 9329  
   France 7640  
   Ontario 6007  
*Rhopalosiphum rufiabdominalis*, Indian Punjab 7665  
*Schizaphis graminum* 4400  
   Brazil 9682  
   damage 4406, 6424



**Wheat cont.***Schizaphis graminum* cont.

Idaho 6424

resistance 4395, 6443, 9682, 9686  
USA 539, 1427, 8627, 9686

seeds

*Deroceras reticulatum* 11723

pest control 839

*Sitobion avenae* 4394, 5387, 9679, 11720  
economic thresholds 7668

France 7655

Germany 1429, 5411, 7642, 7661

Poland 3421

resistance 4403, 8636, 10692, 11719

Shandong 7667, 9677

UK 4408, 7672, 10697

varietal susceptibility 7653-7654

*Sitodiplosis mosellana*

damage 2411

UK 2411

slugs, UK 546, 4405

soil, Collembola 10254

*Spodoptera litura* 7639

Thysanoptera, North Carolina 9279

**Wheat bran**, *Plodia interpunctella* 10059**Wheat dwarf virus**, vectors, *Psammotettix striatus* 10699**Wheat flour**, *Tribolium confusum* 3932, 12077**Wheat germ**extracts, effects, *Spodoptera littoralis* 7202*Melanoplus sanguinipes* 8177**Wheat streak mosaic rymovirus**,*Schizaphis graminum*, interactions 4400**Wheat streak mosaic virus**, vectors, *Aceria tulipae* 1421**White clover** (see *Trifolium repens*)**White fir** (see *Abies concolor*)**White gram** (see Chickpeas)**White mustard** (see *Sinapis alba*)**White pine** (see *Pinus strobus*)**White spruce** (see *Picea glauca*)**Whiteflies** (see Aleyrodidae)**Wigandia urens**

insects, Mexico 4769

*Sphinx lugens* 10981**Wild plants**

Cecidomyiidae, Yugoslavia 1742

habitats

Mymaridae, Florida 4777

predators, Italy 5174

insects

Europe 8967

pollination 8967

invertebrates, UK 7659

**Wildlife**

insecticides, effects 3362

pesticides

poisoning 7604

residues 9630

**Willows** (see *Salix*)**Wines**, pesticides, residues 5735, 12073**Wingia group**

food plants, Australia 6981

taxonomy, revisions 6981

**Winter crooknecks** (see *Cucurbita maxima*;*Cucurbita pepo*)**Winter squashes** (see *Cucurbita maxima*;*Cucurbita pepo*)**Winterschmidtidae**, coffee, habitats,

Queensland 5596

**Wireworms** (see Elateridae)**Wiseana**, pathogens 10408**Wolbachia***Armadillidium vulgare*, symbionts 11488

arthropods, symbionts 6087

*Drosophila*, symbiosis 11356

hosts

*Drosophila* 2166

insects 11518

*Trichogramma* 3198

Isopoda, symbionts 9518

*Trichogramma*, interactions 3213**Wolbachia pipiensis**

hosts

insects 6224

*Tribolium confusum* 7461

fertility 8998

**Wollastoniella parvicuneis**

aubergines, habitats, Thailand 7797

**Wollastoniella parvicuneis** cont.hosts, *Thrips palmi* 7797

morphology 7797

taxonomy, new species 7797

**Wollastoniella rotunda**

aubergines, habitats, Thailand 7797

hosts, *Thrips palmi* 7797**Wood**

Coleoptera 10051

USA 11041

*Coptotermes formosanus*, California 6893*Leptinotarsa decemlineata* 10050*Macrotoma palmata*, Egypt 8617

Rhinothritidae, Zhejiang 12065

**Woodlands**

Coleoptera, UK 3632

Cryptostigmata, UK 3069

Diplopoda, Botswana 3628

habitats, Carabidae, UK 5074

*Ladoga camilla*, UK 8288

Lepidoptera, UK 6081

Neuroptera, UK 3633

Syrphidae, Netherlands 1115

**Woody plants**

Acari, Korea Republic 3418

habitats

Phytoseiidae 652

predatory mites, Massachusetts 648

**Woody weeds**, natural enemies, New Zealand 8978**Wool**, insect pests 4792**Workshops** (see Conferences)**Xanthan**, effects, *Diabrotica virgifera* 6107**Xanthogaleruca luteola** (see *Pyrrhalta luteola*)**Xanthomonas campestris** pv. *oryzae*, Bombay *mori*, cecropins, effects 9152**Xanthomonas maltophilia**, *Steinernema**scapterisci*, symbiosis 10449**Xanthopimpla pedator**

China 1219

hosts, *Dendrolimus punctatus* 1219**Xanthopimpla stemmator**

biology, development 6187

hosts, *Diatraea saccharalis* 6187**Xanthosoma**, insect pests, reports 2797**Xanthosoma sagittifolium**, arthropod pests 4483**Xenopus laevis**

insecticides

effects 3358

toxicity 6362

pesticides, effects 1347

prey, *Tenebrio molitor* 1347**Xenorhabdus**

culture techniques 7410, 7485

entomophilic nematodes, symbionts 4196

*Steinernema scapterisci*, symbiosis 10449**Xenorhabdus bovienii**, hosts, insect pests 7405**Xenorhabdus luminescens**, hosts, insect pests 7395**Xenorhabdus nematophilus**

entomophilic nematodes, symbionts 4196

hosts, *Galleria mellonella* 4190, 11509**Xenos vesparum**

genetics, ribosomal RNA 10220

hosts, *Polistes dominulus* 10220

phylogeny 10220

**Xenoschesis fulvipes**hosts, *Cephalcia arvensis* 5677*Picea abies*, forests, Italy 5677**Xenylla maritima**, *Pinus*, wood, New South Wales 1695**Xerophlaeoba**, taxonomy 918**Xestobium rufovillosum**, biology, behaviour 3943**Ximenia americana**, *Helicoverpa armigera*, Nigeria 4761**Xiphydria maculata***Acer saccharum*, Maryland 8175

biochemistry, sterols 8175

**XRD 473** (see Hexaflumuron)**XRD-473** (see Hexaflumuron)**Xyleborinus**, taxonomy 1810**Xyleborinus saxeseni***Celtis tenuifolia*, Ontario 818

distribution, UK 3103

*Fagus*, UK 3103**Xyleborus**, taxonomy 1810, 5644**Xyleborus affinis**

biology 1717

*Dracaena fragrans*, Italy 1717**Xyleborus californicus**

distribution, California 5644

*Quercus*, California 5644**Xyleborus dispar**

control 6749

*Crataegus*, Germany 6749**Xyleborus fornicatus**, taxonomy, to *Euwallacea* 1810**Xyleborus saxeseni** (see *Xyleborinus saxeseni*)**Xyleborus validus**

biology, behaviour 7964

*Cryptomeria japonica*, Honshu 7964

monitoring, traps 7964

**Xyleborus xylographus**

distribution

California 5644

Florida 4043

*Quercus*, California 5644**Xylella fastidiosa**, vectors, Cicadellidae 7838**Xyleutes ceramicus***Tectona grandis*

damage 8889

Thailand 8889

**Xylocoris flavipes**

control, insect pests, cereal grains 2772

insecticides, resistance 11419

prey, *Tribolium castaneum* 11419

secretions, toxicity, stored products pests 8479

**Xylocoris galactinus**

barley, commodities, Montana 5741

distribution, USA, Montana 5741

prey, Coleoptera 5741

**Xylopa aethiopica**extracts, effects, *Aphis craccivora* 807

insecticidal properties 807

**Xylosandrus brevis**

interactions, fungi 9977

*Lindera triloba*, wood, Honshu 9977

Scolytidae, interactions 8847

**Xylosandrus crassiusculus**

interactions, fungi 9977

*Lindera triloba*, wood, Honshu 9977

Scolytidae, interactions 8847

**Xylosandrus germanus**, *Celtis tenuifolia*, Ontario 818**Xylosandrus mutilatus**, Scolytidae, interactions 8847**Xylotrechus quadripes**

biology, development 6727

coffee, Thailand 4644, 6727

parasitoids 4644

**Xylotrogus brunneus**

taxonomy 30

wood, USA 11041

**Xylotrupes gideon**

coconuts 7467

pathogens 7467

**Xyonysius basalis**, biology, behaviour 2001**Xyonysius californicus**

biology, behaviour 2001

*Parthenium argentatum* 2001**Xysticus cristatus***Boronia megastigma*, habitats, Tasmania 1737prey, *Ctenarytaina thysanura* 1737**Xystosomi**

morphology 4822

taxonomy 4822

**Yams** (*Dioscorea* spp.)commodities, *Lasioderma serricorne* 9005

insect pests

control, chemical control 4483

reports 2797

Isoptera

Nigeria 5471

resistance 5471

yield losses 5471

*Lilioceris livida*, Nigeria 5483*Thrips crawfordi* 919**Yeast extracts**, effects, insect pests 4792**Yeasts**attractants, *Anastrepha suspensa* 673

hosts, Drosophilidae 11361

*Ostrinia nubilalis*, interactions 11303



- Yemen**  
 Cicindelidae 1841  
*Encarsia vanharteni* 4  
 Isopoda 2040  
 potatoes, *Phthorimaea operculella*, natural enemies 7755  
*Yews* (see *Taxus baccata*)
- Yponomeuta**  
 biology, environmental factors 8892  
*Buxus megistotophylla*, Sichuan 8892  
 genetics, chromosomes 5009
- Yponomeuta cagnagellus**  
 distribution, Nova Scotia 5681  
 genetics, mitochondrial DNA 9089  
 North America 9089  
 taxonomy 9089
- Yponomeuta evonymellus**  
 ecology, population dynamics 12003  
*Prunus padus*, UK 12003
- Yponomeuta malinellus**  
 genetics, mitochondrial DNA 9089  
 North America 9089  
 taxonomy 9089
- Yponomeuta padella** (see *Y. padellus*)
- Yponomeuta padellus**  
 biology, behaviour, models 1997  
 genetics  
   gene flow 1997  
   mitochondrial DNA 9089  
 hedges, UK 6748  
 natural enemies 6748  
 North America 9089  
 taxonomy 9089
- Yponomeutoidea**  
 ecology, population dynamics 728  
 forests, Kalimantan 728  
 monitoring, traps 728
- Yposolopha parenthesella**, Fagaceae, Slovakia 11987
- Yucca**  
 Prodoxidae 5984  
*Tegeticula yuccasella*, pollination 2721
- Yucca elephantipes**, *Scyphophorus acupunctatus*, Florida 2718
- Yucca filamentosa**, *Tegeticula yuccasella*, pollination 2722
- Yucca glauca**  
*Tegeticula yuccasella*  
 Colorado 4749  
 pollination 4749
- Yucca kanabensis**  
*Tegeticula yuccasella*  
 pollination 1741, 8000  
 Utah 1741, 8000
- Yugoslavia** (see also Croatia; Slovenia)  
 apples, insect pests 1539  
 arthropods 11869  
*Brevicoryne brassicae*, pathogens 1263  
 cabbages, Aphididae 1507  
 cereals, commodities, Coleoptera 3700  
*Citrus*, *Coccus pseudomagnoliarum*, natural enemies 6684  
 crops, fields, Coccinellidae 6166  
*Diuraphis noxia* 1157  
 Eriophyidae 904  
*Euphorbia*  
   *Oxicesta geographica* 819  
   *Simyra dentinosa* 1757  
 habitats, Acari 1531  
 maize  
   *Diabrotica virgifera* 6465-6466  
   *Ostrinia nubilalis* 6460  
   parasitoids 6464  
*Matricaria inodora*, *Napomyza lateralis* 6015  
 orchards, Heteroptera 11842  
*Robinia*, *Lymantria dispar* 1679  
 soyabeans, Hemiptera 6536  
 sugarbeet, *Zabrus tenebrioides* 1619  
 sunflowers  
   *Brachycaudus helichrysi* 1597  
   fields, Diptera 1597  
 Syrphidae 11383  
*Tilia cordata*, *Oxycaenus lavaterae* 1680  
 weeds, habitats, Coccinellidae 6166  
 wheat  
   *Eurygaster austriaca* 1426  
   insect pests 1425  
 wild plants, Cecidomyiidae 1742
- Zabrotes subfasciatus**  
 genetics, mitochondrial DNA 10341
- Zabrotes subfasciatus** cont.  
*Phaseolus*, commodities 10053  
*Phaseolus vulgaris* 4479  
 commodities, resistance 8027  
 plant extracts  
   effects 10053  
   toxicity 4479, 9010
- Zabrus tenebrioides**  
 biology 2412  
 cereals, France 1416  
 control 1416  
   chemical control 1619  
 sugarbeet, Yugoslavia 1619  
 wheat, Italy 2412
- Zacerata asparagi**, asparagus, South Africa 5502
- Zaire**  
*Anagyrus mangicola* 5164  
 bananas, *Cosmopolites sordidus* 661  
*Brachyponera senaarensis* 5131  
*Gyranoidea tebygi* 5164
- Zambia**  
 cassava, arthropod pests 6567  
 cotton  
   insect pests 2636  
   integrated pest management 2636  
 groundnuts, arthropod pests 6713  
 pesticides, determination 462
- Zamia furfuracea**, *Rhopalotria mollis*, pollination 6742
- Zamiaceae**, insect pests, Australia 10932
- Zanthoxylum**  
*Alcidodes sauteri*, Sichuan 3655  
 Chrysomelidae  
   damage 11998  
   Shanxi 11998
- Zanthoxylum simulans**, extracts, repellents, *Crematogaster* 6399
- Zaptlycerus**, taxonomy 11117
- Zaprius**  
 biochemistry, enzymes 7036  
 genetics 1027
- Zaprius indianus**  
 biology, environmental factors 8281  
 ecology, population dynamics, models 8281  
 ethanol, tolerance 11175  
 genetics, genes 2973
- Zea diploperennis**  
*Dalbulus maidis*, Argentina 3439  
*Diatraea grandiosella*  
   Mexico 7683  
   resistance 7683
- Zea mays** (see Maize)
- Zea mays subsp. parviglumis**  
*Diatraea grandiosella*  
   Mexico 7683  
   resistance 7683
- Zea perennis**  
 Cicadellidae, Mexico 4036  
*Dalbulus*, Mexico 10746  
*Dalbulus maidis*, Argentina 3439  
 habitats, Hymenoptera, Mexico 4036
- Zealandone**, insecticides, effects 9628
- Zeiraphera canadensis**  
 biology  
   behaviour 775-776, 4739, 6798  
   reproduction 9311  
 ecology, population dynamics 4740  
 natural enemies 4740  
*Picea glauca*  
   New Brunswick 775-776, 4739-4740, 6798  
   resistance 776  
 Pinopsida, Quebec 759  
 predators 4739
- Zeiraphera diniana**  
 biology  
   behaviour 7950  
   life history 3662  
*Larix*, Hebei 3662  
 parasitoids 3662  
*Pinus contorta*, UK 7950
- Zeiraphera griseana** (see *Z. diniana*)
- Zeiraphera laricana**  
 biology, life history 3662  
*Larix*, Hebei 3662  
 parasitoids 3662
- Zele**  
 Taiwan 6170  
 taxonomy 6170
- Zele albitarsus**, distribution, Taiwan 6170
- Zele deceptor** (see *Z. albitarsus*)
- Zelkova serrata**, *Hemipodaphis persimilis*, galls 5035
- Zelus renardii**  
 cotton  
   fields  
     Arizona 712  
     California 1636  
 prey  
   *Aphis gossypii* 1636  
   insect pests 712
- Zenaisa asiatica**, insecticides, residues 11614
- Zercon ozkani**  
 new species 4859  
 taxonomy 4859  
 Turkey 4859
- Zercon turcicus**  
 new species 4859  
 taxonomy 4859  
 Turkey 4859
- Zerynthia rumina**  
*Aristolochia*, Spain 11292  
 ecology 11292
- Zethenia rufescentaria**  
 ecology, population dynamics 10976  
*Larix leptolepis*  
 Hokkaido 10976  
 outbreaks 10976  
 natural enemies 10976
- Zetzellia mali**  
 apples  
   orchards  
     Germany 6642  
     Nova Scotia 2558, 9839, 10850  
     Oregon 4554  
 biology  
   behaviour 2558  
   interspecific competition 4554  
 control  
   Acari, apples 4553, 9839  
   *Panonychus ulmi*, apples 10850  
 ecology  
   population density 6642  
   population dynamics 10850  
 fertilizers, effects 10850  
 pesticides, effects 9839  
 prey  
   *Panonychus ulmi* 2558  
   Tetranychidae 6642
- Zeuzera pyrina**  
 biological control agents, evaluation 3274  
 biology 7808, 11931  
 control 7808, 11931  
   biological control 2396  
   chemical control 1604  
 food plants, Egypt 2396  
 hazelnuts  
   America 9907  
   Europe 9907  
 olives  
   Egypt 1604  
   Italy 11931  
 pome fruits, Italy 7808
- Zicrona caerulea**  
*Populus*, forests, France 6760  
 prey, *Chrysomela tremula* 6760
- Zimbabwe**  
 cassava, *Phenacoccus manihoti* 8713  
*Citrus*  
   orchards, Phytoseiidae 1567  
   *Scirtothrips aurantii* 1567  
 forest trees, insect pests 1785  
 groundnuts, arthropod pests 6713  
 Isopoda 3919  
 Isoptera, reviews 1232  
 maize, commodities, Coleoptera 841  
 soyabeans, Noctuidae 8691
- Zinc**  
 effects  
   *Dolerus* 10501  
   Isopoda 10502  
   *Lymantria dispar* 11563  
   *Neochetina eichhorniae* 3692  
   *Omocestus viridulus* 407  
   *Pterostichus niger* 11561  
 invertebrates 1307  
 pollutants, *Ariania arbutorum* 5202  
*Porcellio scaber*, effects 1306



- Zinc fertilizers**, effects, *Cnaphalocrocis medinalis* 9723
- Zingiber officinale**  
extracts, effects, *Aphis craccivora* 807  
insecticidal properties 807  
pest control 3678
- Zizania caduciflora**  
*Cifuna locuples*, damage 7510  
*Pomacea canaliculata*, Taiwan 3469
- Ziziphus jujuba**, *Monoteria edeia*, Madhya Pradesh 4582
- Ziziphus mauritiana**  
*Eriophyes cernuus*, Uttar Pradesh 3567  
habitats, predatory arthropods, Taiwan 7859  
*Larvacarus transitans*, Rajasthan 3564  
*Panonychus citri*, Taiwan 7859
- Ziziphus mistol**, *Dorcacerus barbatus*, Argentina 4689
- Ziziphus sativa**  
arthropod pests, China 10887  
*Carposina sasakii*, China 10889  
*Euzophera batangensis*, Hubei 3569  
*Pachyrhinus yasumatsui*, Hunan 3654  
*Tegolophus ziziphagus*, China 8793  
*Tetranychus cinnabarinus* 7933
- Zodion vsevolodi**  
hosts, Apidae 7995  
Japan 7995
- Zonitoides arboreus**, introduction, UK 2023
- Zonocerus variegatus** 608  
Benin 280  
cassava 608  
Benin 10791  
*Chromolaena odorata* 10026  
control  
biological control 280, 10791  
chemical control 608  
physiology, secretions 6145
- Zoophthora elateridiphaga**, hosts, *Agriotes sputator* 4771
- Zoophthora phytonomi** (see *Erynia phytonomi*)
- Zoophthora radicans** (see *Erynia radicans*)
- Zooplankton**  
acaricides, residues 10639  
insecticides, effects 4346  
pesticides, effects 5353
- Zootecus insularis**  
biochemistry, chemical composition 5197  
molluscicides, effects 5197
- Zootermopsis angusticollis**  
biology 5184  
control 5184  
chemical control 3235  
genetics  
mitochondrial DNA 9241  
outbreeding 1961  
pathogens 1961  
Washington 5184
- Zootermopsis laticeps**, genetics, mitochondrial DNA 9241
- Zootermopsis nevadensis**  
biology, behaviour 768  
genetics, mitochondrial DNA 9241  
*Pinus radiata*, California 768
- Zophobas**, pathogens 4136
- Zophobas atratus**, physiology, development 5854
- Zophodia prodenialis**  
biology, life history 1758  
diets 1758  
*Opuntia*, Arkansas 1758  
parasitoids 1758  
rearing techniques 1758
- Zoysia**, *Scapteriscus vicinus*, resistance 4453
- Zucchini** (see Marrows)
- Zucchini yellow mosaic potyvirus**  
vectors  
Aphididae 3532, 10836-10837  
Aphidoidea 10891  
*Bemisia tabaci* 5510
- Zulia colombiana**, *Brachiaria*, resistance 2474
- Zulia entreriana**  
biology 1170  
development 4455  
environmental factors 1464
- Brachiaria**  
Brazil 7721  
Minas Gerais 1464
- Zulia entreriana** cont.  
*Brachiaria* cont.  
resistance 7721  
*Brachiaria decumbens*, Mato Grosso do Sul 4455  
control 7721  
cultural control 3480  
pastures, Brazil 3480
- Zygaena**, distribution, Spain 3107
- Zygaena trifolii**  
biochemistry, enzymes 8128  
biology  
behaviour 950  
diapause 7237  
Germany 950  
physiology, diapause 5863
- Zygiella x-notata**  
biology 8391  
behaviour 199  
Italy 8391  
UK 199
- Zygina flammigera**, tree fruits, Israel 6627
- Zygina karatasa**  
Citrus, Turkey 1566  
taxonomy 1566
- Zyginidia manaliensis**  
maize  
Indian Punjab 5426  
resistance 5426
- Zyginidia pullula**, pathogens 2169
- Zygogramma**, Mexico 1750-1751
- Zygogramma bicolorata**  
control, *Parthenium hysterophorus* 5715, 6045, 8001  
ecology, life tables 6045  
food plants, India 1748-1751  
*Parthenium hysterophorus*, Karnataka 6045, 8001  
pathogens 6045  
taxonomy 1750-1751
- Zygogramma conjuncta**  
food plants, India 1750-1751  
taxonomy 1750-1751
- Zygogramma suturalis**  
*Ambrosia artemisiifolia*, Russia 5255  
control, *Ambrosia artemisiifolia* 5255  
ecology, population dynamics 5255
- Zygoribatula exilis**, mosses, Switzerland 10580
- Zygosaccharomyces soya**, hosts, *Plutella xylostella* 370



## LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1995 for this journal.

Many other serials were scanned during 1995 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN and publishers' addresses.

- |   |   |
|---|---|
| Acarologia  | Agrochimica   |
| Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura   | Agrokhimiya   |
| Acta Academiae Agriculturae ac Technicae Olstenensis, Zootechnica   | Agronomia Colombiana  |
| Acta Agriculturae Boreali-Sinica                                    | Agronomia Costarricense   |
| Acta Agriculturae Nucleatae Sinica                                  | Agronomia Tropical (Maracay)  |
| Acta Agriculturae Scandinavica. Section B, Soil and Plant Science.  | Agronomie   |
| Acta Agriculturae Shanghai  | Agronomie Tropicale   |
| Acta Agriculturae Universitatis Pekinensis                          | Agronomy Journal  |
| Acta Agriculturae Universitatis Zhejiangensis                       | Agrotropica   |
| Acta Agronomica Sinica  | AI Applications   |
| Acta Agronómica, Universidad Nacional de Colombia                   | Alexandria Journal of Agricultural Research                               |
| Acta Arachnologica  | Allergy (Copenhagen)  |
| Acta Biochimica et Biophysica Sinica                                | Allgemeine Forst- und Jagdzeitung   |
| Acta Biologica Hungarica  | Alon Hanotea  |
| Acta Botanica Gallica   | AMA, Agricultural Mechanization in Asia, Africa and Latin America         |
| Acta Entomologica Bohemoslovaca                                     | Ambio   |
| Acta Entomologica Chilena   | American Bee Journal  |
| Acta Entomologica Sinica  | American Biology Teacher  |
| Acta Facultatis Rerum Naturalium Universitatis Comenianae, Genetica | American Entomologist   |
| et Biologia Molecularis   | American Fern Journal   |
| Acta Horticulturae  | American Industrial Hygiene Association Journal                           |
| Acta Hydrochimica et Hydrobiologica                                 | American Journal of Agricultural Economics                                |
| Acta Microbiologica et Immunologica Hungarica                       | American Journal of Alternative Agriculture                               |
| Acta Mycologica   | American Journal of Botany  |
| Acta Mycologica Sinica  | American Journal of Clinical Nutrition                                    |
| Acta Oecologica   | American Journal of Epidemiology  |
| Acta Parasitologica   | American Journal of Industrial Medicine                                   |
| Acta Physiologiae Plantarum   | American Journal of Public Health   |
| Acta Physiologica Hungarica   | American Midland Naturalist   |
| Acta Phytophylacica Sinica  | American Naturalist   |
| Acta Phytophysiological Sinica                                      | American Potato Journal   |
| Acta Protozoologica   | American Zoologist  |
| Acta Scientiarum Naturalium Universitatis Normalis Hunanensis       | Amino Acids   |
| Acta Scientiarum Naturalium Universitatis Sunyatseni                | Anadolu   |
| Acta Societatis Zoologicae Bohemicae                                | Anais da Sociedade Entomológica do Brasil                                 |
| Acta Virologica   | Analele Institutului de Cercetări pentru Protecția Plantelor, Academia de |
| Acta Zoologica Bulgarica  | Științe Agricole și Silvice   |
| Acta Zoologica Hungarica  | Anales de Biología  |
| Acta Zoologica Mexicana   | Anales del Instituto de Biología. Serie Zoológica                         |
| Acta Zootaxonomica Sinica   | Analyst   |
| Actualidades - Instituto Colombiano Agropecuario                    | Analytical Chemistry (Washington)   |
| Advances in Disease Vector Research                                 | Analytical Letters  |
| Advances in Ecological Research                                     | Animal Behaviour  |
| Advances in Horticultural Science                                   | Annalen des Naturhistorischen Museums in Wien. Serie B für Botanik        |
| Advances in Protein Chemistry                                       | und Zoologie  |
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 EPPO Technical Document  
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 FBVA Berichte  
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 FEMS Microbiology Letters  
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Hydrobiologia

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IDESIA

IFONA Reporter

IITA Research

Ilmu Pertanian

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Irish Naturalists' Journal

Isotope and Radiation Research

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Italian Food & Beverage Technology

ITEA Producción Vegetal

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Japanese Journal of Breeding

Japanese Journal of Crop Science

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Japanese Journal of Toxicology and Environmental Health

Japanese Journal of Tropical Agriculture

JARQ, Japan Agricultural Research Quarterly

Jordbruksekonomska Meddelanden

Journal - American Society of Sugar Cane Technologists

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Journal of Advanced Zoology

Journal of African Zoology

Journal of Agricultural & Environmental Ethics

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Journal of Agriculture of the University of Puerto Rico

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56 Queen's Gate, London, SW7 5JR, UK, and in the Natural History Museum

*International Institute of Parasitology*

395a Hatfield Road, St Albans, Herts AL4 0XU, UK

*International Mycological Institute*

Bakeham Lane, Egham, Surrey TW20 9TY, UK

*International Institute of Biological Control*

Silwood Park, Buckhurst Road, Ascot, Berks SL5 7TA, UK, with field stations in Trinidad & Tobago, Switzerland, Pakistan, Malaysia and Kenya.

#### The services provided include:

- authoritative identification of crop pests and pathogens, and parasitic helminths
- survey and diagnosis of plant health problems
- support for integrated pest management and biological control
- biosystematic research on arthropods, micro-organisms, nematodes and helminths
- diagnosis of biodeterioration problems for industry
- research on human mycoses and tropical parasitic diseases
- training, consultancy and advice in all these areas

CABI also provides the Technical Secretariat of the Consultative Group for BioNET INTERNATIONAL, an international cooperative endeavour dedicated to the development of effective biosystematic capabilities and services in developing countries.